

Luxembourg Radio Interface specifications according to Directive 1999/5/EC

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Interface Regulations

SRD

UWB applications (Generic)

Parameter	Description		Comment
Frequency band	0.009 - 3000000 MHz		Harmonised radio spectrum for UWB (2014/702/EU)
Radio Service			
Application	Short Range Devices UWB applications		Generic UWB
Channel / modulation	Channel spacing		
	Designation of emission		
	Modulation / Occupied bandwidth		
	Reference frequency		
Transmit power / Power density	Output power		Power limits, mitigation techniques and special conditions for generic UWB defined in the annex of the European Commission decision 2014/702/EU are applicable.
	Antenna Gain		
	Radiated power		
Channel access and occupation rules	Duty cycle		
	Access protocol		
	Trans. capacity		
Direction / Separation			
Authorisation regime	Exempt from individual licensing. Operation on a non-interference, non-protected basis		
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	Decision 2007/131/EC, 2009/343/EC, 2014/702/EU EN 302065; EN 302066 ECC/DEC/(06)04		EN 302065: UWB EN 302066: GPR/WPR
Remarks			
Notification number	2015/12/L		
Equipment class	Class 1 + Class 2		Refer to Sub-classes (2000/299/EC)

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Interface Regulations

SRD

UWB applications (LT1)

Parameter	Description		Comment
Frequency band	0.009 - 3000000 MHz		Harmonised radio spectrum for UWB (2014/702/EU)
Radio Service			
Application	Short Range Devices UWB applications		Location Tracking Systems Type 1 (LT1)
Channel / modulation	Channel spacing		
	Designation of emission		
	Modulation / Occupied bandwidth		
	Reference frequency		
Transmit power / Power density	Output power		Power limits, mitigation techniques and special conditions for LT1 UWB defined in the annex of the European Commission decision 2014/702/EU are applicable.
	Antenna Gain		
	Radiated power		
Channel access and occupation rules	Duty cycle		
	Access protocol		
	Trans. capacity		
Direction / Separation			
Authorisation regime	Exempt from individual licensing. Operation on a non-interference, non-protected basis		
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	Decision 2007/131/EC, 2009/343/EC, 2014/702/EU EN 302500 ECC/REC(11)10		
Remarks			
Notification number	2015/12/L		
Equipment class			

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Interface Regulations

SRD

UWB applications (road and rail)

Parameter	Description		Comment
Frequency band	0.009 - 3000000 MHz		Harmonised radio spectrum for UWB (2014/702/EU)
Radio Service			
Application	Short Range Devices UWB applications		UWB devices installed in road and rail vehicles
Channel / modulation	Channel spacing		
	Designation of emission		
	Modulation / Occupied bandwidth		
	Reference frequency		
Transmit power / Power density	Output power		Power limits, mitigation techniques and special conditions for UWB devices installed in road and rail vehicles defined in the annex of the European Commission decision 2014/702/EU are applicable.
	Antenna Gain		
	Radiated power		
Channel access and occupation rules	Duty cycle		
	Access protocol		
	Trans. capacity		
Direction / Separation			
Authorisation regime	Exempt from individual licensing. Operation on a non-interference, non-protected basis		
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	Decision 2007/131/EC, 2009/343/EC, 2014/702/EU EN 302065 ECC/DEC/(06)04		
Remarks			
Notification number	2015/12/L		
Equipment class	Class 1 + Class 2		Refer to Sub-classes (2000/299/EC)

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Interface Regulations

SRD

UWB applications (on board aircraft)

Parameter	Description		Comment
Frequency band	0.009 - 3000000 MHz		Harmonised radio spectrum for UWB (2014/702/EU)
Radio Service			
Application	Short Range Devices UWB applications		UWB onboard aircraft
Channel / modulation	Channel spacing		
	Designation of emission		
	Modulation / Occupied bandwidth		
	Reference frequency		
Transmit power / Power density	Output power		Power limits, mitigation techniques and special conditions for UWB onboard aircraft defined in the annex of the European Commission decision 2014/702/EU are applicable.
	Antenna Gain		
	Radiated power		
Channel access and occupation rules	Duty cycle		
	Access protocol		
	Trans. capacity		
Direction / Separation			
Authorisation regime	Exempt from individual licensing. Operation on a non-interference, non-protected basis		
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	Decision 2007/131/EC, 2009/343/EC, 2014/702/EU ECC/DEC/(12)03 ERC REC 70-03 Annex 1n1		
Remarks			
Notification number	2015/12/L		
Equipment class	Class 1 + Class 2		Refer to Sub-classes (2000/299/EC)



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Interface Regulations

SRD

UWB applications (Material sensing)

Parameter	Description		Comment
Frequency band	0.009 - 3000000 MHz		Harmonised radio spectrum for UWB (2014/702/EU)
Radio Service			
Application	Short Range Devices UWB applications Material Sensing		
Channel / modulation	Channel spacing		
	Designation of emission		
	Modulation / Occupied bandwidth		
	Reference frequency		
Transmit power / Power density	Output power		Power limits, mitigation techniques and special conditions for Material Sensing defined in the annex of the European Commission decision 2014/702/EU are applicable.
	Antenna Gain		
	Radiated power		
Channel access and occupation rules	Duty cycle		
	Access protocol		
	Trans. capacity		
Direction / Separation			
Authorisation regime	Exempt from individual licensing. Operation on a non-interference, non-protected basis		
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	Decision 2007/131/EC, 2009/343/EC, 2014/702/EU ECC/DEC/(07)01		
Remarks			
Notification number	2015/12/L		
Equipment class			

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Interface Regulations

SRD

UWB applications (BMA)

Parameter	Description		Comment
Frequency band	0.009 - 3000000 MHz		Harmonised radio spectrum for UWB (2014/702/EU)
Radio Service			
Application	Short Range Devices UWB applications BMA		
Channel / modulation	Channel spacing		
	Designation of emission		
	Modulation / Occupied bandwidth		
	Reference frequency		
Transmit power / Power density	Output power		Power limits, mitigation techniques and special conditions for BMA defined in the annex of the European Commission decision 2014/702/EU are applicable.
	Antenna Gain		
	Radiated power		
Channel access and occupation rules	Duty cycle		
	Access protocol		
	Trans. capacity		
Direction / Separation			
Authorisation regime	Exempt from individual licensing. Operation on a non-interference, non-protected basis		
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	Decision 2007/131/EC, 2009/343/EC, 2014/702/EU ECC/DEC/(07)01, ERC REC 70-03 Annex 6 EN 302 435		
Remarks			
Notification number	2015/12/L		
Equipment class	Class 1		Refer to Sub-class 57c (2000/299/EC)

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Interface Regulations

SRD

Non-specific Short Range Devices

Parameter	Description		Comment
Frequency band	6.765 - 6.795 MHz		Harmonised radio spectrum for use by short-range devices (2013/752/EU)
Radio Service	Mobile		
Application	Short Range Devices Non-specific SRDs		The frequency band is also used for inductive applications
Channel / modulation	Channel spacing	No spacing	
	Designation of emission		
	Modulation / Occupied bandwidth		
	Reference frequency		
Transmit power / Power density	Output power		
	Antenna Gain		
	Radiated power	42 dBuA/m @ 10m	
Channel access and occupation rules	Duty cycle	No restriction	
	Access protocol		
	Trans. capacity		
Direction / Separation			
Authorisation regime	Exempt from individual licensing		
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	Decision 2013/752/EU EN 300 330 ERC REC 70-03 Annex 1a		Band nr. 22b
Remarks	This band is also defined as ISM band.		
Notification number	2009/0375/L		
Equipment class	Class 1		Refer to Sub-class 114 (2000/299/EC)

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Interface Regulations

SRD

Non-specific Short Range Devices

Parameter	Description		Comment
Frequency band	13.553 - 13.567 MHz		Harmonised radio spectrum for use by short-range devices (2013/752/EU)
Radio Service	Mobile		
Application	Short Range Devices Non-specific SRDs		The frequency band is also used for inductive applications
Channel / modulation	Channel spacing	No spacing	
	Designation of emission		
	Modulation / Occupied bandwidth		
	Reference frequency		
Transmit power / Power density	Output power		
	Antenna Gain		
	Radiated power	42 dBuA/m @ 10m	
Channel access and occupation rules	Duty cycle	No restriction	
	Access protocol		
	Trans. capacity		
Direction / Separation			
Authorisation regime	Exempt from individual licensing		
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	Decision 2013/752/EU EN 300 330 ERC REC 70-03 Annex 1b		Band nr. 27c
Remarks	This band is also defined as ISM band.		
Notification number	2009/0375/L		
Equipment class	Class 1		Refer to Sub-class 24 (2000/299/EC)

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Interface Regulations

SRD

Non-specific Short Range Devices

Parameter	Description		Comment
Frequency band	26.957 - 27.283 MHz		Harmonised radio spectrum for use by short-range devices (2013/752/EU)
Radio Service	Mobile		
Application	Short Range Devices Non-specific SRDs		The frequency band is also used for inductive applications
Channel / modulation	Channel spacing	No spacing	
	Designation of emission		
	Modulation / Occupied bandwidth		
	Reference frequency		
Transmit power / Power density	Output power		
	Antenna Gain		
	Radiated power	42 dBuA/m @ 10m 10 mW e.r.p.	
Channel access and occupation rules	Duty cycle	No restriction	
	Access protocol		
	Trans. capacity		
Direction / Separation			
Authorisation regime	Exempt from individual licensing		
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	Decision 2013/752/EU EN 300 220 ERC REC 70-03 Annex 1c		Band nr.28b
Remarks	This band is also defined as ISM band.		
Notification number	2009/0375/L		
Equipment class	Class 1		Refer to Sub-class 25 (2000/299/EC)

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Interface Regulations

SRD

Non-specific Short Range Devices

Parameter	Description		Comment
Frequency band	26.99 - 27 MHz		Harmonised radio spectrum for use by short-range devices (2013/752/EU)
Radio Service	Mobile		
Application	Short Range Devices Non-specific SRDs		The frequency band is also used for model controls with a duty cycle of 100%.
Channel / modulation	Channel spacing		
	Designation of emission		
	Modulation / Occupied bandwidth	≤ 10 kHz	
	Reference frequency		
Transmit power / Power density	Output power		
	Antenna Gain		
	Radiated power	100 mW e.r.p.	
Channel access and occupation rules	Duty cycle	$< 0.1\%$	Note 1: "When either a duty cycle, LBT or equivalent technique applies then it shall not be user dependent/adjustable and shall be guaranteed by appropriate means. For LBT without AFA or equivalent techniques, the duty cycle limit applies. For any type of frequency agile device the duty cycle limit applies to the total transmission unless LBT or equivalent technique is used."
	Access protocol		
	Trans. capacity		
Direction / Separation			
Authorisation regime	Exempt from individual licensing		
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	Decision 2013/752/EU EN 300 220 ERC REC 70-03 Annex 1c1		Band no.29
Remarks			
Notification number			
Equipment class	Class 1		Refer to Sub-class 118 (2000/299/EC)

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Interface Regulations

SRD

Non-specific Short Range Devices

Parameter	Description		Comment
Frequency band	27.04 - 27.05 MHz		Harmonised radio spectrum for use by short-range devices (2013/752/EU)
Radio Service	Mobile		
Application	Short Range Devices Non-specific SRDs		The frequency band is also used for model controls with a duty cycle of 100%.
Channel / modulation	Channel spacing		
	Designation of emission		
	Modulation / Occupied bandwidth	≤ 10 kHz	
	Reference frequency		
Transmit power / Power density	Output power		
	Antenna Gain		
	Radiated power	100 mW e.r.p.	
Channel access and occupation rules	Duty cycle	$< 0.1\%$	Note 1: "When either a duty cycle, LBT or equivalent technique applies then it shall not be user dependent/adjustable and shall be guaranteed by appropriate means. For LBT without AFA or equivalent techniques, the duty cycle limit applies. For any type of frequency agile device the duty cycle limit applies to the total transmission unless LBT or equivalent technique is used."
	Access protocol		
	Trans. capacity		
Direction / Separation			
Authorisation regime	Exempt from individual licensing		
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	Decision 2013/752/EU EN 300 220 ERC REC 70-03 Annex 1c1		Band no.30
Remarks			
Notification number			
Equipment class	Class 1		Refer to Sub-class 119 (2000/299/EC)

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Interface Regulations

SRD

Non-specific Short Range Devices

Parameter	Description		Comment
Frequency band	27.09 - 27.1 MHz		Harmonised radio spectrum for use by short-range devices (2013/752/EU)
Radio Service	Mobile		
Application	Short Range Devices Non-specific SRDs		The frequency band is also used for model controls with a duty cycle of 100%.
Channel / modulation	Channel spacing		
	Designation of emission		
	Modulation / Occupied bandwidth	≤ 10 kHz	
	Reference frequency		
Transmit power / Power density	Output power		
	Antenna Gain		
	Radiated power	100 mW e.r.p.	
Channel access and occupation rules	Duty cycle	$< 0.1\%$	Note 1: "When either a duty cycle, LBT or equivalent technique applies then it shall not be user dependent/adjustable and shall be guaranteed by appropriate means. For LBT without AFA or equivalent techniques, the duty cycle limit applies. For any type of frequency agile device the duty cycle limit applies to the total transmission unless LBT or equivalent technique is used."
	Access protocol		
	Trans. capacity		
Direction / Separation			
Authorisation regime	Exempt from individual licensing		
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	Decision 2013/752/EU EN 300 220 ERC REC 70-03 Annex 1c1		Band no.31
Remarks			
Notification number			
Equipment class	Class 1		Refer to Sub-class 120 (2000/299/EC)

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Interface Regulations

SRD

Non-specific Short Range Devices

Parameter	Description		Comment
Frequency band	27.14 - 27.15 MHz		Harmonised radio spectrum for use by short-range devices (2013/752/EU)
Radio Service	Mobile		
Application	Short Range Devices Non-specific SRDs		The frequency band is also used for model controls with a duty cycle of 100%.
Channel / modulation	Channel spacing		
	Designation of emission		
	Modulation / Occupied bandwidth	≤ 10 kHz	
	Reference frequency		
Transmit power / Power density	Output power		
	Antenna Gain		
	Radiated power	100 mW e.r.p.	
Channel access and occupation rules	Duty cycle	$< 0.1\%$	Note 1: "When either a duty cycle, LBT or equivalent technique applies then it shall not be user dependent/adjustable and shall be guaranteed by appropriate means. For LBT without AFA or equivalent techniques, the duty cycle limit applies. For any type of frequency agile device the duty cycle limit applies to the total transmission unless LBT or equivalent technique is used."
	Access protocol		
	Trans. capacity		
Direction / Separation			
Authorisation regime	Exempt from individual licensing		
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	Decision 2013/752/EU EN 300 220 ERC REC 70-03 Annex 1c1		Band no.32
Remarks			
Notification number			
Equipment class	Class 1		Refer to Sub-class 121 (2000/299/EC)

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Interface Regulations

SRD

Non-specific Short Range Devices

Parameter	Description		Comment
Frequency band	27.19 - 27.2 MHz		Harmonised radio spectrum for use by short-range devices (2013/752/EU)
Radio Service	Mobile		
Application	Short Range Devices Non-specific SRDs		The frequency band is also used for model controls with a duty cycle of 100%.
Channel / modulation	Channel spacing		
	Designation of emission		
	Modulation / Occupied bandwidth	≤ 10 kHz	
	Reference frequency		
Transmit power / Power density	Output power		
	Antenna Gain		
	Radiated power	100 mW e.r.p.	
Channel access and occupation rules	Duty cycle	$< 0.1\%$	Note 1: "When either a duty cycle, LBT or equivalent technique applies then it shall not be user dependent/adjustable and shall be guaranteed by appropriate means. For LBT without AFA or equivalent techniques, the duty cycle limit applies. For any type of frequency agile device the duty cycle limit applies to the total transmission unless LBT or equivalent technique is used."
	Access protocol		
	Trans. capacity		
Direction / Separation			
Authorisation regime	Exempt from individual licensing		
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	Decision 2013/752/EU EN 300 220 ERC REC 70-03 Annex 1c1		Band no.33
Remarks			
Notification number			
Equipment class	Class 1		Refer to Sub-class 122 (2000/299/EC)

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Interface Regulations

SRD

Non-specific Short Range Devices

Parameter	Description		Comment
Frequency band	40.66 - 40.7 MHz		Harmonised radio spectrum for use by short-range devices (2013/752/EU)
Radio Service	Mobile		
Application	Short Range Devices Non-specific SRDs		
Channel / modulation	Channel spacing	No spacing	
	Designation of emission		
	Modulation / Occupied bandwidth		
	Reference frequency		
Transmit power / Power density	Output power		
	Antenna Gain		
	Radiated power	10 mW e.r.p.	
Channel access and occupation rules	Duty cycle	No restriction	
	Access protocol		
	Trans. capacity		
Direction / Separation			
Authorisation regime	Exempt from individual licensing		
Add. essential requirements			
Freq. planning assumption	Video applications should only be used above 2.4 GHz		
Planned changes			
Reference	Decision 2013/752/EU EN 300 220 ERC REC 70-03 Annex 1d		Band nr. 35
Remarks	This band is also defined as ISM band.		
Notification number	2009/0375/L		
Equipment class	Class 1		Refer to Sub-class 19 (2000/299/EC)

Normative in accordance to the **TCAM RIG II** templateInformative in accordance to the **TCAM RIG II** template

Interface Regulations

SRD

Non-specific Short Range Devices

Parameter	Description		Comment
Frequency band	138.2 - 138.45 MHz		
Radio Service	Mobile		
Application	Short Range Devices Non-specific SRDs		
Channel / modulation	Channel spacing	No spacing	
	Designation of emission		
	Modulation / Occupied bandwidth		
	Reference frequency		
Transmit power / Power density	Output power		
	Antenna Gain		
	Radiated power	10 mW e.r.p.	
Channel access and occupation rules	Duty cycle	< 1.0 %	Note 1: "When either a duty cycle, LBT or equivalent technique applies then it shall not be user dependent/adjustable and shall be guaranteed by appropriate means. For LBT without AFA or equivalent techniques, the duty cycle limit applies. For any type of frequency agile device the duty cycle limit applies to the total transmission unless LBT or equivalent technique is used."
	Access protocol		
	Trans. capacity		
Direction / Separation			
Authorisation regime	Exempt from individual licensing		
Add. essential requirements			
Freq. planning assumption	Video applications should only be used above 2.4 GHz		
Planned changes			
Reference	EN 300 220 ERC REC 70-03 Annex 1e		
Remarks			
Notification number	2005/0347/L		
Equipment class	Class 2		

Normative in accordance to the **TCAM RIG II** templateInformative in accordance to the **TCAM RIG II** template

Interface Regulations

SRD

Non-specific Short Range Devices

Parameter	Description		Comment
Frequency band	169.4 - 169.475 MHz		Harmonised radio spectrum for use by short-range devices (2013/752/EU)
Radio Service	Mobile		
Application	Short Range Devices Non-specific SRDs		The frequency band is also identified for "Tracking, tracing and data acquisition" and "Radio microphone applications including aids for the hearing impaired"
Channel / modulation	Channel spacing		
	Designation of emission		
	Modulation / Occupied bandwidth	≤ 50 kHz	
	Reference frequency		
Transmit power / Power density	Output power		
	Antenna Gain		
	Radiated power	500 mW e.r.p.	
Channel access and occupation rules	Duty cycle	≤ 1.0 %	Note 1: "When either a duty cycle, LBT or equivalent technique applies then it shall not be user dependent/adjustable and shall be guaranteed by appropriate means. For LBT without AFA or equivalent techniques, the duty cycle limit applies. For any type of frequency agile device the duty cycle limit applies to the total transmission unless LBT or equivalent technique is used."
	Access protocol		
	Trans. capacity		
Direction / Separation			
Authorisation regime	Exempt from individual licensing		
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	Decision 2013/752/EU ECC/DEC/(05)02 EN 300 220 ERC REC 70-03 Annex 1f1		Band no. 37c
Remarks			
Notification number			
Equipment class	Class 1		Refer to Sub-class 80 (2000/299/EC)

Normative in accordance to the **TCAM RIG II** templateInformative in accordance to the **TCAM RIG II** template

Interface Regulations

SRD

Non-specific Short Range Devices

Parameter	Description		Comment
Frequency band	169.4 - 169.4875 MHz		Harmonised radio spectrum for use by short-range devices (2013/752/EU)
Radio Service	Mobile		
Application	Short Range Devices Non-specific SRDs		Equipment that concentrates or multiplexes individual equipment is excluded.
Channel / modulation	Channel spacing	No spacing	
	Designation of emission		
	Modulation / Occupied bandwidth		
	Reference frequency		
Transmit power / Power density	Output power		
	Antenna Gain		
	Radiated power	10 mW e.r.p.	
Channel access and occupation rules	Duty cycle	< 0.1 %	Note 1: "When either a duty cycle, LBT or equivalent technique applies then it shall not be user dependent/adjustable and shall be guaranteed by appropriate means. For LBT without AFA or equivalent techniques, the duty cycle limit applies. For any type of frequency agile device the duty cycle limit applies to the total transmission unless LBT or equivalent technique is used."
	Access protocol		
	Trans. capacity		
Direction / Separation			
Authorisation regime	Exempt from individual licensing		
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	Decision 2013/752/EU ECC/DEC/(05)02 EN 300 220 ERC REC 70-03 Annex 1f2		Band no. 38
Remarks			
Notification number			
Equipment class	Class 1		Refer to Sub-class 128 (2000/299/EC)

Normative in accordance to the **TCAM RIG II** templateInformative in accordance to the **TCAM RIG II** template

Interface Regulations

SRD

Non-specific Short Range Devices

Parameter	Description		Comment
Frequency band	169.4875 - 169.5875 MHz		Harmonised radio spectrum for use by short-range devices (2013/752/EU)
Radio Service	Mobile		
Application	Short Range Devices Non-specific SRDs		Equipment that concentrates or multiplexes individual equipment is excluded. The frequency band is also identified for "Radio microphone applications including aids for the hearing impaired" use
Channel / modulation	Channel spacing	No spacing	
	Designation of emission		
	Modulation / Occupied bandwidth		
	Reference frequency		
Transmit power / Power density	Output power		
	Antenna Gain		
	Radiated power	10 mW e.r.p.	
Channel access and occupation rules	Duty cycle	< 0.001 %, from 00:00-06:00 <0.1%	Note 1: "When either a duty cycle, LBT or equivalent technique applies then it shall not be user dependent/adjustable and shall be guaranteed by appropriate means. For LBT without AFA or equivalent techniques, the duty cycle limit applies. For any type of frequency agile device the duty cycle limit applies to the total transmission unless LBT or equivalent technique is used."
	Access protocol		
	Trans. capacity		
Direction / Separation			
Authorisation regime	Exempt from individual licensing		
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	Decision 2013/752/EU ECC/DEC/(05)02 EN 300 220 ERC REC 70-03 Annex 1f3		Band no. 39b
Remarks			
Notification number			
Equipment class	Class 1		Refer to Sub-class 124 (2000/299/EC)

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☐ Informative in accordance to the **TCAM RIG II** template

Interface Regulations

SRD

Non-specific Short Range Devices

Parameter	Description		Comment
Frequency band	169.5875 - 169.8125 MHz		Harmonised radio spectrum for use by short-range devices (2013/752/EU)
Radio Service	Mobile		
Application	Short Range Devices Non-specific SRDs		Equipment that concentrates or multiplexes individual equipment is excluded.
Channel / modulation	Channel spacing	No spacing	
	Designation of emission		
	Modulation / Occupied bandwidth		
	Reference frequency		
Transmit power / Power density	Output power		
	Antenna Gain		
	Radiated power	10 mW e.r.p.	
Channel access and occupation rules	Duty cycle	<0.1%	Note 1: "When either a duty cycle, LBT or equivalent technique applies then it shall not be user dependent/adjustable and shall be guaranteed by appropriate means. For LBT without AFA or equivalent techniques, the duty cycle limit applies. For any type of frequency agile device the duty cycle limit applies to the total transmission unless LBT or equivalent technique is used."
	Access protocol		
	Trans. capacity		
Direction / Separation			
Authorisation regime	Exempt from individual licensing		
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	Decision 2013/752/EU ECC/DEC/(05)02 EN 300 220 ERC REC 70-03 Annex 1f4		Band no. 40
Remarks			
Notification number			
Equipment class	Class 1		Refer to Sub-class 129 (2000/299/EC)

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Interface Regulations

SRD

Non-specific Short Range Devices

Parameter	Description		Comment
Frequency band	433.05 - 434.79 MHz		Harmonised radio spectrum for use by short-range devices (2013/752/EU)
Radio Service	Mobile		
Application	Short Range Devices Non-specific SRDs		
Channel / modulation	Channel spacing	No spacing	
	Designation of emission		
	Modulation / Occupied bandwidth		
	Reference frequency		
Transmit power / Power density	Output power		Note 1: "When either a duty cycle, LBT or equivalent technique applies then it shall not be user dependent/adjustable and shall be guaranteed by appropriate means. For LBT without AFA or equivalent techniques, the duty cycle limit applies. For any type of frequency agile device the duty cycle limit applies to the total transmission unless LBT or equivalent technique is used."
	Antenna Gain		
	Radiated power	10 mW e.r.p.	
Channel access and occupation rules	Duty cycle	< 10 %	
	Access protocol		
	Trans. capacity		
Direction / Separation			
Authorisation regime	Exempt from individual licensing.		
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	Decision 2013/752/EU EN 300 220 ERC REC 70-03 Annex 1g1		Band nr. 44b and 45b
Remarks	This band is also defined as ISM band.		
Notification number	2009/0375/L		
Equipment class	Class 1		Refer to Sub-class 20 (2000/299/EC)

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Interface Regulations

SRD

Non-specific Short Range Devices

Parameter	Description		Comment
Frequency band	433.05 - 434.79 MHz		Harmonised radio spectrum for use by short-range devices (2013/752/EU)
Radio Service	Mobile		
Application	Short Range Devices Non-specific SRDs		
Channel / modulation	Channel spacing	No spacing	
	Designation of emission		
	Modulation / Occupied bandwidth		
	Reference frequency		
Transmit power / Power density	Output power		Power density limited to -13 dBm/10kHz for wideband modulation with a bandwidth greater than 250 kHz.
	Antenna Gain		
	Radiated power	1 mW e.r.p. -13 dBm/10kHz	
Channel access and occupation rules	Duty cycle	up to 100%	Note 11: Audio and video applications are excluded. Voice applications (analogue or digital) are allowed with a maximum bandwidth of ≤ 25 kHz, and with spectrum access technique such as LBT or equivalent and shall include a power output sensor controlling the transmitter to a maximum transmit period of 1 minute for each transmission.
	Access protocol		
	Trans. capacity		
Direction / Separation			
Authorisation regime	Exempt from individual licensing.		
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	Decision 2013/752/EU EN 300 220 ERC REC 70-03 Annex 1g2		Band nr. 44a and 45a
Remarks	This band is also defined as ISM band.		
Notification number	2009/0375/L		
Equipment class	Class 1		Refer to Sub-class 61 (2000/299/EC)

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Interface Regulations

SRD

Non-specific Short Range Devices

Parameter	Description		Comment
Frequency band	434.04 - 434.79 MHz		Harmonised radio spectrum for use by short-range devices (2013/752/EU)
Radio Service	Mobile		
Application	Short Range Devices Non-specific SRDs		
Channel / modulation	Channel spacing		
	Designation of emission		
	Modulation / Occupied bandwidth	≤ 25 KHz	
	Reference frequency		
Transmit power / Power density	Output power		
	Antenna Gain		
	Radiated power	10 mW e.r.p.	
Channel access and occupation rules	Duty cycle	up to 100%	Note 11: Audio and video applications are excluded. Voice applications (analogue or digital) are allowed with a maximum bandwidth of ≤ 25 kHz, and with spectrum access technique such as LBT or equivalent and shall include a power output sensor controlling the transmitter to a maximum transmit period of 1 minute for each transmission.
	Access protocol		
	Trans. capacity		
Direction / Separation			
Authorisation regime	Exempt from individual licensing.		
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	Decision 2013/752/EU EN 300 220 ERC REC 70-03 Annex 1g3		Band nr.45c
Remarks	This band is also defined as ISM band.		
Notification number	2009/0375/L		Sub-class 125 :Analogue audio applications other than voice are excluded. Analogue video applications are excluded
Equipment class	Class 1		Refer to Sub-class 63 (2000/299/EC) (1mW erp) Refer to Sub-class 65 (2000/299/EC) (25 kHz) Refer to Sub-class 125 (2000/299/EC)

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Interface Regulations

SRD

Non-specific Short Range Devices

Parameter	Description		Comment
Frequency band	863 - 870 MHz		Sub-bands for alarms, defined in the Annex 7 of the ERC REC 70-03, are excluded.
Radio Service	Mobile		
Application	Short Range Devices Non-specific SRDs		
Channel / modulation	Channel spacing	≤ 100 kHz, for 47 or more channels (note 2)	Note 2: "The preferred channel spacing is 100 kHz allowing for a subdivision into 50 kHz or 25 kHz." Note 5: "Duty cycle may be increased to 1% if the band is limited to 865-868 MHz."
	Designation of emission		
	Modulation / Occupied bandwidth	FHSS	
	Reference frequency		
Transmit power / Power density	Output power		Note 6: "For other wide-band modulation than FHSS and DSSS with a bandwidth of 200 kHz to 3 MHz, duty cycle can be increased to 1% if the band is limited to 865-868 MHz and power to ≤ 10 mW e.r.p."
	Antenna Gain		
	Radiated power	≤ 25 mW e.r.p.	
Channel access and occupation rules	Duty cycle	≤ 0.1 % or LBT	Note 1: "When either a duty cycle, LBT or equivalent technique applies then it shall not be userdependent/adjustable and shall be guaranteed by appropriate means. For LBT without AFA or equivalent techniques, the duty cycle limit applies. For any type of frequency agile device the duty cycle limit applies to the total transmission unless LBT or equivalent technique is used."
	Access protocol		
	Trans. capacity		
Direction / Separation			
Authorisation regime	Exempt from individual licensing		
Add. essential requirements			
Freq. planning assumption			Note 4: Audio and video applications are allowed provided that a digital modulation method is used with a max. bandwidth of 300 kHz. Analogue and digital voice applications are allowed with a max. bandwidth ≤ 25 kHz. In sub-band 863-865 MHz voice and audio conditions of Annexes 10 and 13 of ERC/REC 70-03 apply respectively.
Planned changes			
Reference	EN 300 220 ERC REC 70-03 Annex 1h1.1		
Remarks			
Notification number	2008/338/L		
Equipment class	Class 2		

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Interface Regulations

SRD

Non-specific Short Range Devices

Parameter	Description		Comment
Frequency band	863 - 870 MHz		Sub-bands for alarms, defined in the Annex 7 of the ERC REC 70-03, are excluded.
Radio Service	Mobile		
Application	Short Range Devices Non-specific SRDs		
Channel / modulation	Channel spacing	No spacing	Note 5: "Duty cycle may be increased to 1% if the band is limited to 865-868 MHz." Note 6: "For wide-band techniques, other than FHSS, operating with a bandwidth of 200 kHz to 3 MHz, the duty cycle can be increased to 1% if the band is limited to 865-868 MHz and power to ≤ 10 mW e.r.p.."
	Designation of emission		
	Modulation / Occupied bandwidth	DSSS and other wideband modulation other than FHSS	
	Reference frequency		
Transmit power / Power density	Output power		Note 7: "The power density can be increased to +6.2dBm/100 kHz and +0.8dBm/100 kHz, if the band of operation is limited to 865-868 MHz and 865-870 MHz respectively."
	Antenna Gain		
	Radiated power	≤ 25 mW e.r.p. -4.5 dBm/100kHz	
Channel access and occupation rules	Duty cycle	≤ 0.1 % or LBT+ AFA	Note 1: "When either a duty cycle, LBT or equivalent technique applies then it shall not be user dependent/adjustable and shall be guaranteed by appropriate means. For LBT without AFA or equivalent techniques, the duty cycle limit applies. For any type of frequency agile device the duty cycle limit applies to the total transmission unless LBT or equivalent technique is used."
	Access protocol		
	Trans. capacity		
Direction / Separation			
Authorisation regime	Exempt from individual licensing		
Add. essential requirements			
Freq. planning assumption			Note 4: Audio and video applications are allowed provided that a digital modulation method is used with a max. bandwidth of 300 kHz. Analogue and digital voice applications are allowed with a max. bandwidth ≤ 25 kHz. In sub-band 863-865 MHz voice and audio conditions of Annexes 10 and 13 of ERC/REC 70-03 apply respectively.
Planned changes			
Reference	EN 300 220 ERC REC 70-03 Annex 1h1.2		
Remarks			
Notification number	2008/338/L		
Equipment class	Class 2		

- ☒ Normative in accordance to the **TCAM RIG II** template
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Interface Regulations

SRD

Non-specific Short Range Devices

Parameter	Description		Comment
Frequency band	863 - 870 MHz		Sub-bands for alarms, defined in the Annex 7 of the ERC REC 70-03, are excluded.
Radio Service	Mobile		
Application	Short Range Devices Non-specific SRDs		
Channel / modulation	Channel spacing	$\leq 100\text{kHz}$, for 1 or more channels $\leq 300\text{Khz}$	Note 2: "The preferred channel spacing is 100 kHz allowing for a subdivision into 50 kHz or 25 kHz" Note 5: "Duty cycle may be increased to 1% if the band is limited to 865-868 MHz."
	Designation of emission		
	Modulation / Occupied bandwidth	Narrow / wide-band modulation	
	Reference frequency		
Transmit power / Power density	Output power		
	Antenna Gain		
	Radiated power	$\leq 25\text{ mW e.r.p.}$	
Channel access and occupation rules	Duty cycle	$\leq 0.1\%$ or LBT + AFA	Note 1: "When either a duty cycle, LBT or equivalent technique applies then it shall not be user dependent/adjustable and shall be guaranteed by appropriate means. For LBT without AFA or equivalent techniques, the duty cycle limit applies. For any type of frequency agile device the duty cycle limit applies to the total transmission unless LBT or equivalent technique is used."
	Access protocol		
	Trans. capacity		
Direction / Separation			
Authorisation regime	Exempt from individual licensing		
Add. essential requirements			
Freq. planning assumption	Video applications should only be used above 2.4 GHz		Note 4: Audio and video applications are allowed provided that a digital modulation method is used with a max. bandwidth of 300 kHz. Analogue and digital voice applications are allowed with a max. bandwidth $\leq 25\text{ kHz}$. In sub-band 863-865 MHz voice and audio conditions of Annexes 10 and 13 of ERC/REC 70-03 apply respectively.
Planned changes			
Reference	EN 300 220 ERC REC 70-03 Annex 1h1.3		
Remarks			
Notification number	2005/0347/L		
Equipment class	Class 2		

- ☒ Normative in accordance to the **TCAM RIG II** template
☐ Informative in accordance to the **TCAM RIG II** template

Interface Regulations

SRD

Non-specific Short Range Devices

Parameter	Description		Comment
Frequency band	863 - 865 MHz		Harmonised radio spectrum for use by short-range devices (2013/752/EU)
Radio Service	Mobile		
Application	Short Range Devices Non-specific SRDs		
Channel / modulation	Channel spacing		
	Designation of emission		
	Modulation / Occupied bandwidth		
	Reference frequency		
Transmit power / Power density	Output power		
	Antenna Gain		
	Radiated power	$\leq 25 \text{ mW e.r.p.}$	
Channel access and occupation rules	Duty cycle	0.1 % or see comment	Techniques to access spectrum and mitigate interference that provide at least equivalent performance to the techniques described in harmonised standards adopted under Directive 1999/5/EC must be used. Alternatively a duty cycle of 0,1 % may also be used.
	Access protocol		
	Trans. capacity		
Direction / Separation			
Authorisation regime	Exempt from individual licensing		
Add. essential requirements			
Freq. planning assumption	Analogue audio applications other than voice are excluded.		Analogue video applications are excluded.
Planned changes			
Reference	Decision 2013/752/EU EN 300 220		Band nr.46a
Remarks			
Notification number	2010/708/L		
Equipment class	Class 1		Refer to Sub-class 66 (2000/299/EC)

Normative in accordance to the **TCAM RIG II** templateInformative in accordance to the **TCAM RIG II** template

Interface Regulations

SRD

Non-specific Short Range Devices

Parameter	Description		Comment
Frequency band	865 - 868 MHz		Harmonised radio spectrum for use by short-range devices (2013/752/EU)
Radio Service	Mobile		
Application	Short Range Devices Non-specific SRDs		
Channel / modulation	Channel spacing		
	Designation of emission		
	Modulation / Occupied bandwidth		
	Reference frequency		
Transmit power / Power density	Output power		
	Antenna Gain		
	Radiated power	$\leq 25 \text{ mW e.r.p.}$	
Channel access and occupation rules	Duty cycle	1 % or see comment	Techniques to access spectrum and mitigate interference that provide at least equivalent performance to the techniques described in harmonised standards adopted under Directive 1999/5/EC must be used. Alternatively a duty cycle of 1 % may also be used.
	Access protocol		
	Trans. capacity		
Direction / Separation			
Authorisation regime	Exempt from individual licensing		
Add. essential requirements			
Freq. planning assumption	Analogue audio applications other than voice are excluded.		Analogue video applications are excluded.
Planned changes			
Reference	Decision 2013/752/EU EN 300 220		Band nr.47
Remarks			
Notification number	2010/708/L		
Equipment class	Class 1		Refer to Sub-class 67 (2000/299/EC)

Normative in accordance to the **TCAM RIG II** templateInformative in accordance to the **TCAM RIG II** template

Interface Regulations

SRD

Non-specific Short Range Devices

Parameter	Description		Comment
Frequency band	868 - 868.6 MHz		
Radio Service	Mobile		
Application	Short Range Devices Non-specific SRDs		
Channel / modulation	Channel spacing	No spacing, for 1 or more channels see note 2	No channel spacing, however the whole stated frequency band may be used. Note 2: "The preferred channel spacing is 100 kHz allowing for a subdivision into 50 kHz or 25 kHz." Note 5: "Duty cycle may be increased to 1% if the band is limited to 865-868 MHz."
	Designation of emission		
	Modulation / Occupied bandwidth	Narrow / wide-band modulation	
	Reference frequency		
Transmit power / Power density	Output power		
	Antenna Gain		
	Radiated power	$\leq 25 \text{ mW e.r.p.}$	
Channel access and occupation rules	Duty cycle	$\leq 1.0 \% \text{ or LBT} + \text{AFA}$	Note 1: "When either a duty cycle, LBT or equivalent technique applies then it shall not be user dependent/adjustable and shall be guaranteed by appropriate means. For LBT without AFA or equivalent techniques, the duty cycle limit applies. For any type of frequency agile device the duty cycle limit applies to the total transmission unless LBT or equivalent technique is used."
	Access protocol		
	Trans. capacity		
Direction / Separation			
Authorisation regime	Exempt from individual licensing		
Add. essential requirements			
Freq. planning assumption			Note 4: Audio and video applications are allowed provided that a digital modulation method is used with a max. bandwidth of 300 kHz. Analogue and digital voice applications are allowed with a max. bandwidth $\leq 25 \text{ kHz}$. In sub-band 863-865 MHz voice and audio conditions of Annexes 10 and 13 of ERC/REC 70-03 apply respectively.
Planned changes			
Reference	EN 300 220 ERC REC 70-03 Annex 1h1.4		
Remarks			
Notification number	2007/351/L		
Equipment class	Class 2		

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Interface Regulations

SRD

Non-specific Short Range Devices

Parameter	Description		Comment
Frequency band	868 - 868.6 MHz		Harmonised radio spectrum for use by short-range devices (2013/752/EU)
Radio Service	Mobile		
Application	Short Range Devices Non-specific SRDs		
Channel / modulation	Channel spacing		
	Designation of emission		
	Modulation / Occupied bandwidth		
	Reference frequency		
Transmit power / Power density	Output power		
	Antenna Gain		
	Radiated power	25 mW e.r.p.	
Channel access and occupation rules	Duty cycle	1 % or see comment	Techniques to access spectrum and mitigate interference that provide at least equivalent performance to the techniques described in harmonised standards adopted under Directive 1999/5/EC must be used. Alternatively a duty cycle of 1 % may also be used.
	Access protocol		
	Trans. capacity		
Direction / Separation			
Authorisation regime	Exempt from individual licensing		
Add. essential requirements			
Freq. planning assumption	Analogue video applications are excluded.		
Planned changes			
Reference	Decision 2013/752/EU EN 300 220		Band nr.48
Remarks			
Notification number	2009/0375/L		
Equipment class	Class 1		Refer to Sub-class 28 (2000/299/EC)

Normative in accordance to the **TCAM RIG II** templateInformative in accordance to the **TCAM RIG II** template

Interface Regulations

SRD

Non-specific Short Range Devices

Parameter	Description		Comment
Frequency band	868.7 - 869.2 MHz		
Radio Service	Mobile		
Application	Short Range Devices Non-specific SRDs		
Channel / modulation	Channel spacing	No spacing, for 1 or more channels see note 2	No channel spacing, however the whole stated frequency band may be used. Note 2: "The preferred channel spacing is 100 kHz allowing for a subdivision into 50 kHz or 25 kHz."
	Designation of emission		
	Modulation / Occupied bandwidth	Narrow / wide-band modulation	
	Reference frequency		
Transmit power / Power density	Output power		
	Antenna Gain		
	Radiated power	$\leq 25 \text{ mW e.r.p.}$	
Channel access and occupation rules	Duty cycle	$\leq 0.1 \% \text{ or LBT + AFA}$	Note 1: "When either a duty cycle, LBT or equivalent technique applies then it shall not be user dependent/adjustable and shall be guaranteed by appropriate means. For LBT without AFA or equivalent techniques, the duty cycle limit applies. For any type of frequency agile device the duty cycle limit applies to the total transmission unless LBT or equivalent technique is used."
	Access protocol		
	Trans. capacity		
Direction / Separation			
Authorisation regime	Exempt from individual licensing		
Add. essential requirements			
Freq. planning assumption			Note 4: Audio and video applications are allowed provided that a digital modulation method is used with a max. bandwidth of 300 kHz. Analogue and digital voice applications are allowed with a max. bandwidth $\leq 25 \text{ kHz}$. In sub-band 863-865 MHz voice and audio conditions of Annexes 10 and 13 of ERC/REC 70-03 apply respectively.
Planned changes			
Reference	EN 300 220 ERC REC 70-03 Annex 1h1.5		
Remarks			
Notification number	2007/351/L		
Equipment class	Class 2		

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Interface Regulations

SRD

Non-specific Short Range Devices

Parameter	Description		Comment
Frequency band	868.7 - 869.2 MHz		Harmonised radio spectrum for use by short-range devices (2013/752/EU)
Radio Service	Mobile		
Application	Short Range Devices Non-specific SRDs		
Channel / modulation	Channel spacing		
	Designation of emission		
	Modulation / Occupied bandwidth		
	Reference frequency		
Transmit power / Power density	Output power		
	Antenna Gain		
	Radiated power	25 mW e.r.p.	
Channel access and occupation rules	Duty cycle	0.1 % or see comment	Techniques to access spectrum and mitigate interference that provide at least equivalent performance to the techniques described in harmonised standards adopted under Directive 1999/5/EC must be used. Alternatively a duty cycle of 0.1 % may also be used.
	Access protocol		
	Trans. capacity		
Direction / Separation			
Authorisation regime	Exempt from individual licensing		
Add. essential requirements			
Freq. planning assumption	Analogue video applications are excluded.		
Planned changes			
Reference	Decision 2013/752/EU EN 300 220		Band nr. 50
Remarks			
Notification number	2009/0375/L		
Equipment class	Class 1		Refer to Sub-class 29 (2000/299/EC)

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Interface Regulations

SRD

Non-specific Short Range Devices

Parameter	Description		Comment
Frequency band	869.4 - 869.65 MHz		
Radio Service	Mobile		
Application	Short Range Devices Non-specific SRDs		
Channel / modulation	Channel spacing	No spacing (1 or more channels)	The whole stated frequency band may be used as 1 channel for high-speed data transmission
	Designation of emission		
	Modulation / Occupied bandwidth	Narrow / wide-band modulation	
	Reference frequency		
Transmit power / Power density	Output power		
	Antenna Gain		
	Radiated power	$\leq 500 \text{ mW e.r.p.}$	
Channel access and occupation rules	Duty cycle	$\leq 10\%$ or LBT + AFA	Note 1: "When either a duty cycle, LBT or equivalent technique applies then it shall not be user dependent/adjustable and shall be guaranteed by appropriate means. For LBT without AFA or equivalent techniques, the duty cycle limit applies. For any type of frequency agile device the duty cycle limit applies to the total transmission unless LBT or equivalent technique is used."
	Access protocol		
	Trans. capacity		
Direction / Separation			
Authorisation regime	Exempt from individual licensing		
Add. essential requirements			
Freq. planning assumption	Video applications should only be used above 2.4 GHz		
Planned changes			
Reference	EN 300 220 ERC REC 70-03 Annex 1h1.6		
Remarks			
Notification number	2008/338/L		
Equipment class	Class 2		

Normative in accordance to the **TCAM RIG II** templateInformative in accordance to the **TCAM RIG II** template

Interface Regulations

SRD

Non-specific Short Range Devices

Parameter	Description		Comment
Frequency band	869.4 - 869.65 MHz		Harmonised radio spectrum for use by short-range devices (2013/752/EU)
Radio Service	Mobile		
Application	Short Range Devices Non-specific SRDs		
Channel / modulation	Channel spacing	25kHz or see comment	
	Designation of emission		
	Modulation / Occupied bandwidth		
	Reference frequency		
Transmit power / Power density	Output power		
	Antenna Gain		
	Radiated power	500 mW e.r.p.	
Channel access and occupation rules	Duty cycle	10% or see comment	Techniques to access spectrum and mitigate interference that provide at least equivalent performance to the techniques described in harmonised standards adopted under Directive 1999/5/EC must be used. Alternatively a duty cycle of 10 % may also be used.
	Access protocol		
	Trans. capacity		
Direction / Separation			
Authorisation regime	Exempt from individual licensing		
Add. essential requirements			
Freq. planning assumption	Analogue video applications are excluded.		
Planned changes			
Reference	Decision 2013/752/EU EN 300 220		Band nr. 54b
Remarks			
Notification number	2009/0375/L		
Equipment class	Class 1		Refer to Sub-class 30 (2000/299/EC)

Normative in accordance to the **TCAM RIG II** templateInformative in accordance to the **TCAM RIG II** template

Interface Regulations

SRD

Non-specific Short Range Devices

Parameter	Description		Comment
Frequency band	869.4 - 869.65 MHz		Harmonised radio spectrum for use by short-range devices (2013/752/EU)
Radio Service	Mobile		
Application	Short Range Devices Non-specific SRDs		
Channel / modulation	Channel spacing		
	Designation of emission		
	Modulation / Occupied bandwidth		
	Reference frequency		
Transmit power / Power density	Output power		
	Antenna Gain		
	Radiated power	25 mW e.r.p.	
Channel access and occupation rules	Duty cycle	0.1% or see comment	Techniques to access spectrum and mitigate interference that provide at least equivalent performance to the techniques described in harmonised standards adopted under Directive 1999/5/EC must be used. Alternatively a duty cycle of 0.1 % may also be used.
	Access protocol		
	Trans. capacity		
Direction / Separation			
Authorisation regime	Exempt from individual licensing		
Add. essential requirements			
Freq. planning assumption	Analogue audio applications other than voice are excluded.		Analogue video applications are excluded.
Planned changes			
Reference	Decision 2013/752/EU EN 300 220		Band nr. 54a
Remarks			
Notification number	2009/0375/L		
Equipment class	Class 1		Refer to Sub-class 130 (2000/299/EC)

Normative in accordance to the **TCAM RIG II** templateInformative in accordance to the **TCAM RIG II** template

Interface Regulations

SRD

Non-specific Short Range Devices

Parameter	Description		Comment
Frequency band	869.7 - 870 MHz		
Radio Service	Mobile		
Application	Short Range Devices Non-specific SRDs		
Channel / modulation	Channel spacing	No spacing (1 or more channels)	No channel spacing, however the whole stated frequency band may be used.
	Designation of emission		
	Modulation / Occupied bandwidth	Narrow / wide-band modulation	
	Reference frequency		
Transmit power / Power density	Output power		Note 11: "Audio and video applications are excluded. Voice applications (analogue or digital) are allowed with a maximum bandwidth of ≤ 25 kHz, and with spectrum access technique such as LBT or equivalent and shall include a power output sensor controlling the transmitter to a maximum transmit period of 1 minute for each transmission."
	Antenna Gain		
	Radiated power	a) ≤ 5 mW e.r.p. b) ≤ 25 mW e.r.p.	
Channel access and occupation rules	Duty cycle	a) up to 100% b) up to 1% or LBT+AFA	Note 1: "When either a duty cycle, LBT or equivalent dependent / adjustable and shall be guaranteed by appropriate means. For LBT without AFA or equivalent techniques, the duty cycle limit applies. For any type of frequency agile device the duty cycle limit applies to the total transmission unless LBT or equivalent technique is used."
	Access protocol		
	Trans. capacity		
Direction / Separation			
Authorisation regime	Exempt from individual licensing		
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	EN 300 220 ERC REC 70-03 Annex 1h1.7		
Remarks			
Notification number	2010/378/L		
Equipment class	Class 2		

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Interface Regulations

SRD

Non-specific Short Range Devices

Parameter	Description		Comment
Frequency band	869.7 - 870 MHz		Harmonised radio spectrum for use by short-range devices (2013/752/EU)
Radio Service	Mobile		
Application	Short Range Devices Non-specific SRDs		
Channel / modulation	Channel spacing		
	Designation of emission		
	Modulation / Occupied bandwidth		
	Reference frequency		
Transmit power / Power density	Output power		
	Antenna Gain		
	Radiated power	$\leq 5 \text{ mW e.r.p.}$	
Channel access and occupation rules	Duty cycle		Voice applications allowed with advanced mitigation techniques.
	Access protocol		
	Trans. capacity		
Direction / Separation			
Authorisation regime	Exempt from individual licensing		
Add. essential requirements			
Freq. planning assumption	Audio and video applications are excluded.		
Planned changes			
Reference	Decision 2013/752/EU EN 300 220		Band nr.56a
Remarks			
Notification number	2009/0375/L		
Equipment class	Class 1		Refer to Sub-class 31 (2000/299/EC)

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Interface Regulations

SRD

Non-specific Short Range Devices

Parameter	Description		Comment
Frequency band	869.7 - 870 MHz		Harmonised radio spectrum for use by short-range devices (2013/752/EU)
Radio Service	Mobile		
Application	Short Range Devices Non-specific SRDs		
Channel / modulation	Channel spacing		
	Designation of emission		
	Modulation / Occupied bandwidth		
	Reference frequency		
Transmit power / Power density	Output power		
	Antenna Gain		
	Radiated power	$\leq 25 \text{ mW e.r.p.}$	
Channel access and occupation rules	Duty cycle	1% or see comment	Techniques to access spectrum and mitigate interference that provide at least equivalent performance to the techniques described in harmonised standards adopted under Directive 1999/5/EC must be used.
	Access protocol		
	Trans. capacity		Alternatively a duty cycle 1 % may also be used.
Direction / Separation			
Authorisation regime	Exempt from individual licensing		
Add. essential requirements			
Freq. planning assumption	Analogue audio applications other than voice are excluded.		Analogue video applications are excluded.
Planned changes			
Reference	Decision 2013/752/EU EN 300 220		Band nr. 56b
Remarks			
Notification number	2009/0375/L		
Equipment class	Class 1		Refer to Sub-class 69 (2000/299/EC)

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Interface Regulations

SRD

Non-specific Short Range Devices

Parameter	Description		Comment
Frequency band	870 - 876 MHz		
Radio Service	Mobile		
Application	Short Range Devices Non-specific SRDs		The frequency band is also used for tracking, tracing, data acquisition and TTT applications.
Channel / modulation	Channel spacing		
	Designation of emission		
	Modulation / Occupied bandwidth	≤ 200 kHz	
	Reference frequency		
Transmit power / Power density	Output power		
	Antenna Gain		
	Radiated power	25 mW e.r.p.	
Channel access and occupation rules	Duty cycle	$\leq 0.1\%$ or see comment	For ER-GSM protection (873-876 MHz, where applicable), the duty cycle is limited to $\leq 0.01\%$ and limited to a maximum transmit on-time of 5ms/1s.
	Access protocol		
	Trans. capacity		
Direction / Separation			
Authorisation regime	Exempt from individual licensing		
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	EN 300 220 ERC REC 70-03 Annex 1h2		
Remarks			
Notification number	2014/450/L		
Equipment class			

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Interface Regulations

SRD

Non-specific Short Range Devices

Parameter	Description		Comment
Frequency band	870 - 875.8 MHz		
Radio Service	Mobile		
Application	Short Range Devices Non-specific SRDs		The frequency band is also used for tracking, tracing, data acquisition and TTT applications.
Channel / modulation	Channel spacing		
	Designation of emission		
	Modulation / Occupied bandwidth	≤ 600 kHz	
	Reference frequency		
Transmit power / Power density	Output power		
	Antenna Gain		
	Radiated power	25 mW e.r.p.	
Channel access and occupation rules	Duty cycle	$\leq 1\%$ or see comment	For ER-GSM protection (873-876 MHz, where applicable), the duty cycle is limited to $\leq 0.01\%$ and limited to a maximum transmit on-time of 5ms/1s.
	Access protocol		
	Trans. capacity		
Direction / Separation			
Authorisation regime	Exempt from individual licensing		
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	EN 300 220 ERC REC 70-03 Annex 1h2.1		
Remarks			
Notification number	2014/450/L		
Equipment class			

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Interface Regulations

SRD

Non-specific Short Range Devices

Parameter	Description		Comment
Frequency band	915 - 921 MHz		
Radio Service	Mobile		
Application	Short Range Devices Non-specific SRDs		The frequency band is also used for radio microphone applications and RFID applications
Channel / modulation	Channel spacing		
	Designation of emission		
	Modulation / Occupied bandwidth	≤ 200 kHz	
	Reference frequency		
Transmit power / Power density	Output power		
	Antenna Gain		
	Radiated power	25 mW e.r.p.	
Channel access and occupation rules	Duty cycle	$\leq 0.1\%$ or see comment	For ER-GSM protection (918-921 MHz, where applicable), the duty cycle is limited to $\leq 0.01\%$ and limited to a maximum transmit on-time of 5ms/1s.
	Access protocol		
	Trans. capacity		
Direction / Separation			
Authorisation regime	Exempt from individual licensing		
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	EN 300 220 ERC REC 70-03 Annex 1h3		
Remarks			
Notification number	2014/450/L		
Equipment class			

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Interface Regulations

SRD

Non-specific Short Range Devices

Parameter	Description		Comment
Frequency band	915.2 - 920.8 MHz		
Radio Service	Mobile		
Application	Short Range Devices Non-specific SRDs		The frequency band is also used for radio microphone applications and RFID applications
Channel / modulation	Channel spacing		For the frequencies 916.3 MHz, 917.5 MHz, 918.7 MHz and 919.9 MHz a channel bandwidth of 400 kHz applies
	Designation of emission		
	Modulation / Occupied bandwidth	≤ 600 kHz	
	Reference frequency		
Transmit power / Power density	Output power		For the frequencies 916.3 MHz, 917.5 MHz, 918.7 MHz and 919.9 MHz a radiated power of 100 mW e.r.p. applies.
	Antenna Gain		
	Radiated power	25 mW e.r.p.	
Channel access and occupation rules	Duty cycle	≤ 1% or see comment	For ER-GSM protection (918-920.8 MHz, where applicable), the duty cycle is limited to ≤ 0.01% and limited to a maximum transmit on-time of 5ms/1s. (RFID tags on 916.3 MHz, 917.5 MHz, 918.7 MHz and 919.9 MHz have 100% duty cycle)
	Access protocol		
	Trans. capacity		
Direction / Separation			
Authorisation regime	Exempt from individual licensing		
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	EN 300 220 ERC REC 70-03 Annex 1h3.1		
Remarks			
Notification number	2014/450/L		
Equipment class			

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Interface Regulations

SRD

Non-specific Short Range Devices

Parameter	Description		Comment
Frequency band	2400 - 2483.5 MHz		Harmonised radio spectrum for use by short-range devices (2013/752/EU)
Radio Service	Mobile		
Application	Short Range Devices Non-specific SRDs		
Channel / modulation	Channel spacing	No spacing	
	Designation of emission		
	Modulation / Occupied bandwidth		
	Reference frequency		
Transmit power / Power density	Output power		
	Antenna Gain		
	Radiated power	10 mW e.i.r.p.	
Channel access and occupation rules	Duty cycle	No restriction	
	Access protocol		
	Trans. capacity		
Direction / Separation			
Authorisation regime	Exempt from individual licensing		
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	Decision 2013/752/EU EN 300 440 ERC REC 70-03 Annex 1i		Band nr. 57a
Remarks	This band is also defined as ISM band.		
Notification number	2005/0347/L		
Equipment class	Class 1		Refer to Sub-class 21 (2000/299/EC)

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Interface Regulations

SRD

Non-specific Short Range Devices

Parameter	Description		Comment
Frequency band	5725 - 5875 MHz		Harmonised radio spectrum for use by short-range devices (2013/752/EU)
Radio Service	Mobile		
Application	Short Range Devices Non-specific SRDs		
Channel / modulation	Channel spacing	No spacing	
	Designation of emission		
	Modulation / Occupied bandwidth		
	Reference frequency		
Transmit power / Power density	Output power		
	Antenna Gain		
	Radiated power	25 mW e.i.r.p.	
Channel access and occupation rules	Duty cycle	No restriction	
	Access protocol		
	Trans. capacity		
Direction / Separation			
Authorisation regime	Exempt from individual licensing		
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	Decision 2013/752/EU EN 300 440 ERC REC 70-03 Annex 1j		Band nr. 61
Remarks	This band is also defined as ISM band.		
Notification number	2008/338/L		
Equipment class	Class 1		Refer to Sub-class 43 (2000/299/EC)



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Informative in accordance to the **TCAM RIG II** template

Interface Regulations

SRD

Non-specific Short Range Devices

Parameter	Description		Comment
Frequency band	24000 - 24250 MHz		24.15-24.25 GHz: Harmonised radio spectrum for use by short-range devices (2013/752/EU)
Radio Service	Mobile		
Application	Short Range Devices Non-specific SRDs		The frequency band is also used for inductive applications
Channel / modulation	Channel spacing	No spacing	
	Designation of emission		
	Modulation / Occupied bandwidth		
	Reference frequency		
Transmit power / Power density	Output power		
	Antenna Gain		
	Radiated power	100 mW e.i.r.p.	
Channel access and occupation rules	Duty cycle	No restriction	
	Access protocol		
	Trans. capacity		
Direction / Separation			
Authorisation regime	Exempt from individual licensing		
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	Decision 2013/752/EU EN 300 440 ERC REC 70-03 Annex 1m		Band nr. 70a (24.15-24.25 GHz)
Remarks	This band is also defined as ISM band.		
Notification number	2005/0347/L		
Equipment class	Class 1		Refer to Sub-class 27 (2000/299/EC) (24.15-24.25)

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Interface Regulations

SRD

Non-specific Short Range Devices

Parameter	Description		Comment
Frequency band	61000 - 61500 MHz		Harmonised radio spectrum for use by short-range devices (2013/752/EU)
Radio Service	Mobile		
Application	Short Range Devices Non-specific SRDs		
Channel / modulation	Channel spacing	No spacing	
	Designation of emission		
	Modulation / Occupied bandwidth		
	Reference frequency		
Transmit power / Power density	Output power		
	Antenna Gain		
	Radiated power	100 mW e.i.r.p.	
Channel access and occupation rules	Duty cycle	No restriction	
	Access protocol		
	Trans. capacity		
Direction / Separation			
Authorisation regime	Exempt from individual licensing		
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	Decision 2013/752/EU EN 305 550 ERC REC 70-03 Annex 1n2		Band nr. 76
Remarks	This band is also defined as ISM band.		
Notification number	2009/0375/L		
Equipment class	Class 1		Refer to Sub-class 71 (2000/299/EC)

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Interface Regulations

SRD

Non-specific Short Range Devices

Parameter	Description		Comment
Frequency band	57000 - 64000 MHz		Harmonised radio spectrum for use by short-range devices (2013/752/EU)
Radio Service	Mobile		
Application	Short Range Devices Non-specific SRDs		
Channel / modulation	Channel spacing	No spacing	
	Designation of emission		
	Modulation / Occupied bandwidth		
	Reference frequency		
Transmit power / Power density	Output power		Max. transmitter output power of 10mW, and a power density limited to 13 dBm/MHz e.i.r.p. applies
	Antenna Gain		
	Radiated power	100 mW e.i.r.p.	
Channel access and occupation rules	Duty cycle	No restriction	
	Access protocol		
	Trans. capacity		
Direction / Separation			
Authorisation regime	Exempt from individual licensing		
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	Decision 2013/752/EU EN 305 550 ERC REC 70-03 Annex 1n1		Band no. 74a
Remarks			
Notification number	2013/32/L		
Equipment class	Class 1		Refer to Sub-class 126 (2000/299/EC)

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Interface Regulations

SRD

Non-specific Short Range Devices

Parameter	Description		Comment
Frequency band	122000 - 123000 MHz		Harmonised radio spectrum for use by short-range devices (2013/752/EU)
Radio Service	Mobile		
Application	Short Range Devices Non-specific SRDs		
Channel / modulation	Channel spacing	No spacing	
	Designation of emission		
	Modulation / Occupied bandwidth		
	Reference frequency		
Transmit power / Power density	Output power		
	Antenna Gain		
	Radiated power	100 mW e.i.r.p.	
Channel access and occupation rules	Duty cycle	No restriction	
	Access protocol		
	Trans. capacity		
Direction / Separation			
Authorisation regime	Exempt from individual licensing		
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	Decision 2013/752/EU EN 305 550		Band nr.80
Remarks	This band is also defined as ISM band.		
Notification number	2012/305/L		
Equipment class	Class 1		Refer to Subclass 107 (Decision 2000/299/CE)

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Interface Regulations

SRD

Non-specific Short Range Devices

Parameter	Description		Comment
Frequency band	244000 - 246000 MHz		Harmonised radio spectrum for use by short-range devices (2013/752/EU)
Radio Service	Mobile		
Application	Short Range Devices Non-specific SRDs		
Channel / modulation	Channel spacing	No spacing	
	Designation of emission		
	Modulation / Occupied bandwidth		
	Reference frequency		
Transmit power / Power density	Output power		
	Antenna Gain		
	Radiated power	100 mW e.i.r.p.	
Channel access and occupation rules	Duty cycle	No restriction	
	Access protocol		
	Trans. capacity		
Direction / Separation			
Authorisation regime	Exempt from individual licensing		
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	Decision 2013/752/EU EN 305 550 ERC REC 70-03 Annex 1p		Band nr. 81
Remarks	This band is also defined as ISM band.		
Notification number	2012/305/L		
Equipment class	Class 1		Refer to Sub-class 62 (2000/299/EC)

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Interface Regulations

SRD

Tracking, Tracing and Data Acquisition

Parameter	Description		Comment
Frequency band	0.4569 - 0.4571 MHz		Harmonised radio spectrum for use by short-range devices (2013/752/EU)
Radio Service	Mobile		
Application	Short Range Devices Tracking, tracing and data acquisition Emergency detection		Emergency detection of buried victims and valuable items. No app. in Luxembourg
Channel / modulation	Channel spacing	Not applicable	Center frequency is 457 kHz
	Designation of emission		
	Modulation / Occupied bandwidth	Continuous wave (CW) No modulation	
	Reference frequency		
Transmit power / Power density	Output power		
	Antenna Gain		
	Radiated power	7 dBuA/m @ 10m	
Channel access and occupation rules	Duty cycle	up to 100%	
	Access protocol		
	Trans. capacity		
Direction / Separation			
Authorisation regime	Exempt from individual licensing		
Add. essential requirements	Application of Article 3.3(e), ensuring access to emergency services.		
Freq. planning assumption			
Planned changes			
Reference	Commission Decision 2013/752/EU EN 300 718 ERC REC 70-03 Annex 2a		Band no. 18
Remarks			
Notification number	2010/378/L		
Equipment class	Class 1		Refer to Sub-class 49 (2000/299/EC)

Normative in accordance to the **TCAM RIG II** templateInformative in accordance to the **TCAM RIG II** template

Interface Regulations

SRD

Tracking, tracing and data acquisition

Parameter	Description		Comment
Frequency band	169.4 - 169.475 MHz		Harmonised radio spectrum for use by short-range devices (2013/752/EU)
Radio Service	Mobile		
Application	Short Range Devices Tracking, tracing and data acquisition Meter reading		
Channel / modulation	Channel spacing	Max 50 kHz	
	Designation of emission		
	Modulation / Occupied bandwidth		
	Reference frequency		
Transmit power / Power density	Output power		
	Antenna Gain		
	Radiated power	500mW e.r.p.	
Channel access and occupation rules	Duty cycle	< 10%	Duty cycle controls (hardware or software) related to the duty cycle requirements shall not be accessible to the user. The duty cycle shall not be capable of being disabled or altered and shall be implemented as an automatic feature in the equipment.
	Access protocol		
	Trans. capacity		
Direction / Separation			
Authorisation regime	Exempt from individual licensing		
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	Decision 2013/752/EU ECC/DEC (05)02 EN 300 220 ERC REC 70-03 Annex 2b		Band no. 37b
Remarks			
Notification number	2007/351/L		
Equipment class	Class 1		Refer to Sub-class 123 (2000/299/EC)

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Interface Regulations

SRD

Tracking, Tracing and Data Acquisition

Parameter	Description		Comment
Frequency band	870 - 875.6 MHz		
Radio Service	Mobile		
Application	Short Range Devices Tracking, tracing and data acquisition		The frequency band is also used for non-specific SRDs and TTT applications.
Channel / modulation	Channel spacing	≤ 200 kHz	
	Designation of emission		
	Modulation / Occupied bandwidth		
	Reference frequency		
Transmit power / Power density	Output power		
	Antenna Gain		
	Radiated power	500mW e.r.p.	
Channel access and occupation rules	Duty cycle	$\leq 2.5\%$ + APC required	$\leq 2.5\%$ duty cycle and APC required.
	Access protocol		For ER-GSM protection (873-875.6MHz, where applicable), the duty cycle is limited to $\leq 0.01\%$ and limited to a maximum transmit on time of 5ms/1s.
	Trans. capacity		
Direction / Separation			
Authorisation regime	Exempt from individual licensing		
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	ERC REC 70-03 Annex 2c		
Remarks			
Notification number	2014/450/L		
Equipment class	Class 2		

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Interface Regulations

SRD

Tracking, Tracing and Data Acquisition

Parameter	Description		Comment
Frequency band	2483.5 - 2500 MHz		
Radio Service	Mobile		
Application	Short Range Devices Tracking, tracing and data acquisition MBANS		MBANs used indoor only within healthcare facilities. The frequency band is also used for active medical implants.
Channel / modulation	Channel spacing		
	Designation of emission		
	Modulation / Occupied bandwidth	≤ 3 MHz	
	Reference frequency		
Transmit power / Power density	Output power		
	Antenna Gain		
	Radiated power	1mW e.i.r.p.	
Channel access and occupation rules	Duty cycle	≤ 10 %	Adequate spectrum sharing mechanisms (e.g. Listen-Before-Talk and Adaptive Frequency Agility) shall be implemented by the equipment and $\leq 10\%$ duty cycle.
	Access protocol		
	Trans. capacity		
Direction / Separation			
Authorisation regime	Exempt from individual licensing		
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	EN 303 203 ERC REC 70-03 Annex 2d1		
Remarks			
Notification number	2014/450/L		
Equipment class	Class 2		

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Interface Regulations

SRD

Tracking, Tracing and Data Acquisition

Parameter	Description		Comment
Frequency band	2483.5 - 2500 MHz		
Radio Service	Mobile		
Application	Short Range Devices Tracking, tracing and data acquisition MBANS		MBANs used indoor only within healthcare facilities. The frequency band is also used for active medical implants.
Channel / modulation	Channel spacing		
	Designation of emission		
	Modulation / Occupied bandwidth	$\leq 3 \text{ MHz}$	
	Reference frequency		
Transmit power / Power density	Output power		
	Antenna Gain		
	Radiated power	10mW e.i.r.p.	
Channel access and occupation rules	Duty cycle	$\leq 2 \%$	Adequate spectrum sharing mechanisms (e.g. Listen-Before-Talk and Adaptive Frequency Agility) shall be implemented by the equipment and $\leq 2\%$ duty cycle.
	Access protocol		
	Trans. capacity		
Direction / Separation			
Authorisation regime	Exempt from individual licensing		
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	EN 303 203 ERC REC 70-03 Annex 2d2		
Remarks			
Notification number	2014/450/L		
Equipment class	Class 2		

Normative in accordance to the **TCAM RIG II** templateInformative in accordance to the **TCAM RIG II** template

Interface Regulations

SRD

Tracking, Tracing and Data Acquisition

Parameter	Description		Comment
Frequency band	5725 - 5875 MHz		
Radio Service	<i>Mobile</i> <i>Land Mobile</i>		
Application	<i>Short Range Devices</i> <i>Tracking, tracing and data acquisition</i> <i>WIA</i>		<i>Wireless Industrial Applications</i>
Channel / modulation	Channel spacing		
	Designation of emission		
	Modulation / Occupied bandwidth	$\geq 1 \text{ MHz}$ and $\leq 20 \text{ MHz}$	
	Reference frequency		
Transmit power / Power density	Output power		
	Antenna Gain		
	Radiated power	$\leq 400 \text{ mW eirp}$	
Channel access and occupation rules	Duty cycle		<i>APC required</i> <i>Adequate spectrum sharing mechanisms (e.g. DFS and DAA) shall be implemented.</i>
	Access protocol		
	Trans. capacity		
Direction / Separation			
Authorisation regime			
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	<i>EN 303 258</i> <i>ERC REC 70-03 Annex 2e</i>		
Remarks			
Notification number	2016/7/L		
Equipment class	Class 2		

Normative in accordance to the **TCAM RIG II** templateInformative in accordance to the **TCAM RIG II** template

Interface Regulations

SRD

Wideband Data Transmission systems

Parameter	Description		Comment
Frequency band	2400 - 2483.5 MHz		Harmonised radio spectrum for use by short-range devices (2013/752/EU)
Radio Service	Mobile		
Application	Short Range Devices Wideband data transmission systems Radio LANs		RLAN access, inter-device communication, control of model airplanes, microphones, etc.)
Channel / modulation	Channel spacing	No spacing	The equipment shall implement an adequate spectrum sharing mechanism in order to facilitate sharing between the various technologies and applications covered by Wideband Data Transmission systems.
	Designation of emission		
	Modulation / Occupied bandwidth		
	Reference frequency		
Transmit power / Power density	Output power		100 mW/100 kHz e.i.r.p. density applies when frequency hopping modulation is used, 10 mW/MHz e.i.r.p. density applies when other types of modulation are used
	Antenna Gain		
	Radiated power	100 mW e.i.r.p.	
Channel access and occupation rules	Duty cycle	No restriction	
	Access protocol		
	Trans. capacity		
Direction / Separation			
Authorisation regime	Exempt from individual licensing		
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	Decision 2013/752/EU EN 300 328 ERC REC 70-03 Annex 3a		Band nr. 57c
Remarks	Harmonised radio spectrum for use by short-range devices.		
Notification number	2009/0375/L		
Equipment class	Class 1		Refer to Sub-class 22 (2000/299/EC)

Normative in accordance to the **TCAM RIG II** templateInformative in accordance to the **TCAM RIG II** template

Interface Regulations

SRD

Wideband Data Transmission systems

Parameter	Description		Comment
Frequency band	5150 - 5350 MHz		Harmonised use of radio spectrum in the 5 GHz frequency band for the implementation of WAS/RLANs (2005/513/EC as amended)
Radio Service	Mobile		Connections between access points in the frequency band of 5 GHz possible.
Application	Short Range Devices Wideband data transmission systems		
Channel / modulation	Channel spacing	No spacing	Techniques to access spectrum and mitigate interference that provide at least equivalent performance to the techniques described in harmonised standards adopted under Directive 1999/5/EC must be used
	Designation of emission		
	Modulation / Occupied bandwidth		
	Reference frequency		
Transmit power / Power density	Output power		The maximum mean e.i.r.p. density shall be limited to 10mW/MHz in any 1 MHz band.
	Antenna Gain		
	Radiated power	200 mW Max mean e.i.r.p.	
Channel access and occupation rules	Duty cycle	No restriction	5250 - 5350 MH : Equal detection, operational and response requirements described in EN 301 893 to ensure compatible operation with radiodetermination systems (radars).
	Access protocol		
	Trans. capacity		
Direction / Separation			
Authorisation regime	Exempt from individual licensing		
Add. essential requirements			
Freq. planning assumption	Restricted to indoor use.		
Planned changes			
Reference	Commission Decision 2005/513/EC as amended EN 301 893 ECC/DEC/(04)08		
Remarks			
Notification number	2012/450/L		
Equipment class	Class 2		Refer to Sub-class H01 (2000/299/EC)

Normative in accordance to the **TCAM RIG II** templateInformative in accordance to the **TCAM RIG II** template

Interface Regulations

SRD

Wideband Data Transmission systems

Parameter	Description		Comment
Frequency band	5470 - 5725 MHz		Harmonised use of radio spectrum in the 5 GHz frequency band for the implementation of WAS/RLANs (2007/90/EC)
Radio Service	Mobile		Connections between access points in the frequency band of 5 GHz possible.
Application	Short Range Devices Wideband data transmission systems		
Channel / modulation	Channel spacing		The equipment shall implement an adequate spectrum sharing mechanism in order to facilitate sharing between the various technologies and applications covered by Wideband Data Transmission systems.
	Designation of emission		
	Modulation / Occupied bandwidth		
	Reference frequency		
Transmit power / Power density	Output power		The maximum mean e.i.r.p. density shall be restricted to 50mW/MHz in any 1 MHz band.
	Antenna Gain		
	Radiated power	1 W Max mean e.i.r.p.	
Channel access and occupation rules	Duty cycle	No restriction	Equal detection, operational and response requirements described in EN 301 893 to ensure compatible operation with radiodetermination systems (radars).
	Access protocol		
	Trans. capacity		
Direction / Separation			
Authorisation regime	Exempt from individual licensing		
Add. essential requirements			
Freq. planning assumption	Indoor as well as outdoor use allowed.		
Planned changes			
Reference	Commission Decision 2007/90/EC EN 301 893 ECC/DEC/(04)08		
Remarks			
Notification number	2012/450/L		
Equipment class	Class 2		Refer to Sub-class H01 (2000/299/EC)

Normative in accordance to the **TCAM RIG II** templateInformative in accordance to the **TCAM RIG II** template

Interface Regulations

SRD

Wideband Data Transmission systems

Parameter	Description		Comment
Frequency band	57000 - 66000 MHz		Harmonised radio spectrum for use by short-range devices (2013/752/EU)
Radio Service	Mobile		
Application	Short Range Devices Wideband data transmission systems		
Channel / modulation	Channel spacing	No spacing	
	Designation of emission		
	Modulation / Occupied bandwidth		
	Reference frequency		
Transmit power / Power density	Output power		The maximum mean e.i.r.p. density is limited to 13 dBm/MHz.
	Antenna Gain		
	Radiated power	40 dBm mean e.i.r.p.	
Channel access and occupation rules	Duty cycle	No restriction	Techniques to access spectrum and mitigate interference that provide at least equivalent performance to the techniques described in harmonised standards adopted under Directive 1999/5/EC must be used.
	Access protocol		
	Trans. capacity		
Direction / Separation			
Authorisation regime	Exempt from individual licensing		
Add. essential requirements			
Freq. planning assumption	Fixed outdoor installations are excluded		
Planned changes			
Reference	Decision 2013/752/EU EN 302 567 ERC REC 70-03 Annex 3b		Band nr. 75
Remarks			
Notification number	2009/0375/L		
Equipment class	Class 2		Refer to Sub-class H03 (2000/299/EC)

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Interface Regulations

SRD

Railway applications

Parameter	Description		Comment
Frequency band	27.09 - 27.1 MHz		Center frequency : 27095 kHz
Radio Service	Mobile		Balise tele-powering and down-link (train to ground) systems including Eurobalise and activation of the Loop / Euroloop
Application	Short Range Devices Railway applications Eurobalise		Tele-powering and Down-link signal for Balise / Eurobalise. May also be optionnally used for the activation of the Loop / Euroloop.
Channel / modulation	Channel spacing	No spacing	
	Designation of emission		
	Modulation / Occupied bandwidth		
	Reference frequency		
Transmit power / Power density	Output power		
	Antenna Gain		
	Radiated power	42 dBuA/m @ 10m	
Channel access and occupation rules	Duty cycle		
	Access protocol		
	Trans. capacity		
Direction / Separation			
Authorisation regime	Exempt from individual licensing		
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	EN 302 608 ERC REC 70-03 Annex 4c		
Remarks			
Notification number	2010/378/L		
Equipment class	Class 2		

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Interface Regulations

SRD

Railway applications

Parameter	Description		Comment
Frequency band	0.984 - 7.484 MHz		Harmonised radio spectrum for use by short-range devices (2013/752/EU)
Radio Service	Mobile		Balise up-link (ground to train) systems including Eurobalise
Application	Short Range Devices Railway applications Eurobalise		Transmitting only on receipt of a Balise / Eurobalise tele-powering signal from a train.
Channel / modulation	Channel spacing	No spacing	Center frequency : 4232 kHz
	Designation of emission		
	Modulation / Occupied bandwidth		
	Reference frequency		
Transmit power / Power density	Output power		
	Antenna Gain		
	Radiated power	9 dBuA/m @ 10 m	
Channel access and occupation rules	Duty cycle	<=1%	
	Access protocol		
	Trans. capacity		
Direction / Separation			
Authorisation regime	Exempt from individual licensing		
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	Decision 2013/752/EU EN 302 608 ERC REC 70-03 Annex 4a		Band no. 19
Remarks			
Notification number	2010/378/L		
Equipment class	Class 1		Refer to Sub-class 109 (2000/299/EC)

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Interface Regulations

SRD

Railway applications

Parameter	Description		Comment
Frequency band	7.3 - 23 MHz		Harmonised radio spectrum for use by short-range devices (2013/752/EU)
Radio Service	Mobile		Loop up-link (ground to train) systems including Euroloop
Application	Short Range Devices		
	Railway applications		
	Euroloop		
Channel / modulation	Channel spacing	No spacing	Center frequency: 13.547 MHz
	Designation of emission		
	Modulation / Occupied bandwidth		
	Reference frequency		
Transmit power / Power density	Output power		Maximum field strength specified in a bandwidth of 10 kHz, spatially averaged over any 200m length of the loop. Transmitting only in presence of trains. Spread Spectrum Signal, Code Length: 472 chips.
	Antenna Gain		
	Radiated power	-7 dBuA/m @ 10 m	
Channel access and occupation rules	Duty cycle	No Restriction	
	Access protocol		
	Trans. capacity		
Direction / Separation			
Authorisation regime	Exempt from individual licensing		
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	Decision 2013/752/EU EN 302 609 ERC REC 70-03 Annex 4b		Band no. 23
Remarks			
Notification number	2010/378/L		
Equipment class	Class 1		Refer to Sub-class 110 (2000/299/EC) (Duty cycle <=1%)

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Interface Regulations

SRD

Railway applications

Parameter	Description		Comment
Frequency band	76000 - 77000 MHz		
Radio Service	Mobile		
Application	Short Range Devices Railway applications		Obstruction / Vehicle detection via radar sensor at railway level crossings. Frequency band is also used for RTTT applications.
Channel / modulation	Channel spacing	No spacing	
	Designation of emission		
	Modulation / Occupied bandwidth		
	Reference frequency		
Transmit power / Power density	Output power		50 dBm average power or 23.5 dBm average power for pulse radar.
	Antenna Gain		
	Radiated power	55 dBm peak e.i.r.p.	
Channel access and occupation rules	Duty cycle	No Restriction	
	Access protocol		
	Trans. capacity		
Direction / Separation			
Authorisation regime	Exempt from individual licensing		
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	EN 301 091 ERC REC 70-03 Annex 4d		
Remarks			
Notification number	2013/32/L		
Equipment class	Class 2		

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Interface Regulations

SRD

Transport and Traffic Telematics (TTT)

Parameter	Description		Comment
Frequency band	870 - 875.8 MHz		
Radio Service	Mobile		
Application	Short Range Devices TTT		This frequency band is also used for non-specific SRDs and Tracking, Tracing and Data Acquisition systems.
Channel / modulation	Channel spacing	≤ 500 kHz	
	Designation of emission		
	Modulation / Occupied bandwidth		
	Reference frequency		
Transmit power / Power density	Output power		500 mW restricted to vehicle-to-vehicle applications. 100 mW is restricted to in-vehicle applications. Adaptive Power Control (APC) is required. The APC is able to reduce a link's transmit power from its maximum to ≤ 5 mW
	Antenna Gain		
	Radiated power	500 mW e.r.p. 100 mW e.r.p.	
Channel access and occupation rules	Duty cycle	≤ 0.1 %	For ER-GSM protection (873-875.8MHz, where applicable), the duty cycle is limited to ≤ 0.01 % and limited to a maximum transmit on-time of 5ms/1s.
	Access protocol		
	Trans. capacity		
Direction / Separation			
Authorisation regime	Exempt from individual licensing		
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	EN 300 220 ERC REC 70-03 Annex 5a		
Remarks			
Notification number	2014/450/L		
Equipment class	Class 2		

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Interface Regulations

SRD

Transport and Traffic Telematics (TTT)

Parameter	Description		Comment
Frequency band	5795 - 5805 MHz		Harmonised radio spectrum for use by short-range devices (2013/752/EU) for 2 W e.i.r.p.
Radio Service	Mobile		
Application	Short Range Devices TTT		Intended for road to vehicle systems, particularly (but not exclusively) road toll systems.
Channel / modulation	Channel spacing		Recommended for 5 MHz channel spacing systems with the frequencies: 5797.5 MHz and 5802.5 MHz. For 10 MHz channel spacing system 5800 MHz.
	Designation of emission		
	Modulation / Occupied bandwidth		
	Reference frequency		
Transmit power / Power density	Output power		The use of 8 W e.i.r.p. allows for 1 Mbit/s. 2W e.i.r.p. allows for 500 kbit/s downlink and 250 kbit/s uplink and for low data rates (31 kbit/s).
	Antenna Gain		
	Radiated power	2 W e.i.r.p. 8 W e.i.r.p.	
Channel access and occupation rules	Duty cycle	No restriction	
	Access protocol		
	Trans. capacity		
Direction / Separation			
Authorisation regime	Exempt from individual licensing License may be required for 8 W systems.		
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	EC Directive 2004/52/EC, EC Decision 2013/752/EU EN 300 674 ERC REC 70-03 Annex 5b1		Band no. 62 Grand-ducal decree of the 04 June 2007 concerning the interoperability of RTTT systems in the EC. (2004/52/EC)
Remarks			
Notification number	2008/338/L		
Equipment class	Class 2		Refer to Sub-class H05 (2000/299/EC) (2W eirp)

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Interface Regulations

SRD

Transport and Traffic Telematics (TTT)

Parameter	Description		Comment
Frequency band	5805 - 5815 MHz		
Radio Service	Mobile		
Application	Short Range Devices TTT		
Channel / modulation	Channel spacing		Recommended for 5 MHz channel spacing systems with the frequencies: 5807.5 MHz and 5812.5 MHz. For 10 MHz channel spacing system 5810 MHz.
	Designation of emission		
	Modulation / Occupied bandwidth		
	Reference frequency		
Transmit power / Power density	Output power		The use of 8 W e.i.r.p. allows for 1 Mbit/s. 2W e.i.r.p. allows for 500 kbit/s downlink and 250 kbit/s uplink and for low data rates (31 kbit/s).
	Antenna Gain		
	Radiated power	2 W e.i.r.p. 8 W e.i.r.p.	
Channel access and occupation rules	Duty cycle	No restriction	
	Access protocol		
	Trans. capacity		
Direction / Separation			
Authorisation regime	Individual licence required.		5 805 - 5 815 MHz on a national basis for multi-lane road junctions, particularly, but not exclusively road toll systems.
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	EC Directive 2004/52/EC EN 300 674 ERC REC 70-03 Annex 5b2		Grand-ducal decree of the 04 june 2007 concerning the interoperability of RTTT systems in the EC. (2004/52/EC)
Remarks			
Notification number	2008/338/L		
Equipment class	Class 1		Refer to Sub-class 108 (2000/299/EC)

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Interface Regulations

SRD

Transport and Traffic Telematics (TTT)

Parameter	Description		Comment
Frequency band	5725 - 5875 MHz		
Radio Service	Mobile		
Application	Short Range Devices TTT		
Channel / modulation	Channel spacing	500 kHz	
	Designation of emission		
	Modulation / Occupied bandwidth		
	Reference frequency		
Transmit power / Power density	Output power		
	Antenna Gain		
	Radiated power	-14 dBm e.i.r.p.	
Channel access and occupation rules	Duty cycle		
	Access protocol		EN 12253
	Trans. capacity		
Direction / Separation			
Authorisation regime			
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	EC Directive 2004/52/EC EN 300 674		Grand-ducal decree of the 04 june 2007 concerning the interoperability of RTTT systems in the EC. (2004/52/EC)
Remarks			
Notification number	2014/450/L		
Equipment class	Class 1		Refer to Sub-class 108 (2000/299/EC)

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Interface Regulations

SRD

Transport and Traffic Telematics (TTT)

Parameter	Description		Comment
Frequency band	63000 - 64000 MHz		Harmonised radio spectrum for use by short-range devices (2013/752/EU)
Radio Service	Mobile		
Application	Short Range Devices TTT		Vehicle to vehicle, vehicle to infrastructure, infrastructure to vehicle
Channel / modulation	Channel spacing	No spacing	
	Designation of emission		
	Modulation / Occupied bandwidth		
	Reference frequency		
Transmit power / Power density	Output power		Spectrum Access and mitigation requirement to be determined.
	Antenna Gain		
	Radiated power	40 dBm e.i.r.p.	
Channel access and occupation rules	Duty cycle		
	Access protocol		
	Trans. capacity		
Direction / Separation			
Authorisation regime	Exempt from individual licensing		
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	Decision 2013/752/EU EN 302 686		Band no.77
Remarks			
Notification number	2012/450/L		
Equipment class	Class 1		Refer to Subclass 105 (Decision 2000/299/CE)

Normative in accordance to the **TCAM RIG II** templateInformative in accordance to the **TCAM RIG II** template

Interface Regulations

SRD

Transport and Traffic Telematics (TTT)

Parameter	Description		Comment
Frequency band	76000 - 77000 MHz		Harmonised radio spectrum for use by short-range devices (2013/752/EU)
Radio Service	Mobile		
Application	Short Range Devices TTT Vehicle and infrastructure radar		
Channel / modulation	Channel spacing	No spacing	
	Designation of emission		
	Modulation / Occupied bandwidth		
	Reference frequency		
Transmit power / Power density	Output power		
	Antenna Gain		
	Radiated power	55 dBm peak e.i.r.p.; 50 dBm mean; 23.5 dBm mean for pulse radar	
Channel access and occupation rules	Duty cycle	No restriction	
	Access protocol		
	Trans. capacity		
Direction / Separation			
Authorisation regime	Exempt from individual licensing		
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	Decision 2013/752/EU EN 301 091 ERC REC 70-03 Annex 5f1, ECC DEC (02)01		Band no. 79
Remarks			
Notification number	2010/708/L		
Equipment class	Class 1		Refer to subclass 50

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Interface Regulations

SRD

Transport and Traffic Telematics (TTT)

Parameter	Description		Comment
Frequency band	76000 - 77000 MHz		
Radio Service	<i>Mobile</i> <i>Land Mobile</i>		
Application	<i>Short Range Devices</i> <i>TTT</i>		<i>For obstacle detection radars for rotorcraft use.</i>
Channel / modulation	Channel spacing	<i>See ECC Decision</i>	
	Designation of emission		
	Modulation / Occupied bandwidth		
	Reference frequency		
Transmit power / Power density	Output power		
	Antenna Gain		
	Radiated power	<i>See ECC Decision</i>	
Channel access and occupation rules	Duty cycle	<i>See ECC Decision</i>	
	Access protocol		
	Trans. capacity		
Direction / Separation			
Authorisation regime	<i>Exempt from individual licensing</i>		
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	<i>EN 301 091</i> <i>ERC REC 70-03 Annex 5f2, ECC DEC (16)01</i>		
Remarks			
Notification number			
Equipment class	<i>Class 2</i>		

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Interface Regulations

SRD

Transport and Traffic Telematics (TTT)

Parameter	Description		Comment
Frequency band	21650 - 26650 MHz		Harmonisation of radio spectrum in the 24 GHz range for the time-limited use by automotive short-range radar equipment in the Community. (2005/50/EC amended by 2011/485/EU)
Radio Service	Mobile		
Application	Short Range Devices TTT SRR		New SRR equipment may only be placed onto the market until 01 July 2013.
Channel / modulation	Channel spacing		
	Designation of emission		
	Modulation / Occupied bandwidth		
	Reference frequency		
Transmit power / Power density	Output power		Detailed requirements in related ECC decision.
	Antenna Gain		
	Radiated power		
Channel access and occupation rules	Duty cycle		
	Access protocol		
	Trans. capacity		
Direction / Separation			
Authorisation regime	Exempt from individual licensing		
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	Decision 2011/485/EU ERC REC 70-03 Annex c1, ECC DEC (04)10 EN 302 288		
Remarks			
Notification number	2009/0375/L		
Equipment class	Class 1		Refer to Sub-class 52 (2000/299/EC)

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Interface Regulations

SRD

Transport and Traffic Telematics (TTT)

Parameter	Description		Comment
Frequency band	24250 - 26650 MHz		Harmonisation of radio spectrum in the 24 GHz range for the time-limited use by automotive short-range radar equipment in the Community. (2005/50/EC amended by 2011/485/EU)
Radio Service	Mobile		
Application	Short Range Devices TTT		SRR equipment may only be placed onto the market until 01 July 2018. This date is extended by 4 years for SRR mounted on motor vehicles, with a conformity compliance before 1 January 2018.
Channel / modulation	Channel spacing		
	Designation of emission		
	Modulation / Occupied bandwidth		
	Reference frequency		
Transmit power / Power density	Output power		Detailed requirements in related ECC decision.
	Antenna Gain		
	Radiated power		
Channel access and occupation rules	Duty cycle		
	Access protocol		
	Trans. capacity		
Direction / Separation			
Authorisation regime	Exempt from individual licensing		
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	Decision 2011/485/EU ERC REC 70-03 Annex 1c2, ECC DEC (04)10 EN 302 288		
Remarks			
Notification number	2012/450/L		
Equipment class	Class 1		Refer to Sub-class 52 + 111 (2000/299/EC)

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Interface Regulations

SRD

Transport and Traffic Telematics (TTT)

Parameter	Description		Comment
Frequency band	77000 - 81000 MHz		Harmonisation of radio spectrum in the 79 GHz range for the use of automotive short-range radar equipment in the Community. (2004/545/EU)
Radio Service	Mobile		
Application	Short Range Devices TTT SRR		
Channel / modulation	Channel spacing		
	Designation of emission		
	Modulation / Occupied bandwidth		
	Reference frequency		
Transmit power / Power density	Output power		Detailed requirements in related ECC decision.
	Antenna Gain		
	Radiated power		
Channel access and occupation rules	Duty cycle		
	Access protocol		
	Trans. capacity		
Direction / Separation			
Authorisation regime	Exempt from individual licensing		
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	CE Decision 2004/545/EU EN 302 264 ERC REC 70-03 Annex 5g, ECC DEC (04)03		
Remarks			
Notification number	2009/0375/L		
Equipment class	Class 1		Refer to Sub-class 53 (2000/299/EC)

Normative in accordance to the **TCAM RIG II** templateInformative in accordance to the **TCAM RIG II** template

Interface Regulations

SRD

Transport and Traffic Telematics (TTT)

Parameter	Description		Comment
Frequency band	24050 - 24075 MHz		Harmonised radio spectrum for use by short-range devices (2013/752/EU)
Radio Service	Mobile		
Application	Short Range Devices TTT		For vehicle radars
Channel / modulation	Channel spacing		
	Designation of emission		
	Modulation / Occupied bandwidth		
	Reference frequency		
Transmit power / Power density	Output power	100 mW e.i.r.p.	
	Antenna Gain		
	Radiated power		
Channel access and occupation rules	Duty cycle		
	Access protocol		
	Trans. capacity		
Direction / Separation			
Authorisation regime	Exempt from individual licensing		
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	CE Decision 2013/752/EU EN 302 858 ERC REC 70-03 Annex 5d1		Band no. 66
Remarks			
Notification number	2012/305/L		
Equipment class	Class 1		Refer to Subclass 101 (Commission Decision 2000/299/CE)

Normative in accordance to the **TCAM RIG II** templateInformative in accordance to the **TCAM RIG II** template

Interface Regulations

SRD

Transport and Traffic Telematics (TTT)

Parameter	Description		Comment
Frequency band	24075 - 24150 MHz		Harmonised radio spectrum for use by short-range devices (2013/752/EU)
Radio Service	Mobile		
Application	Short Range Devices TTT		
Channel / modulation	Channel spacing		
	Designation of emission		
	Modulation / Occupied bandwidth		
	Reference frequency		
Transmit power / Power density	Output power	a) 0.1mW e.i.r.p. b) 100mW e.i.r.p.	
	Antenna Gain		
	Radiated power		
Channel access and occupation rules	Duty cycle		
	Access protocol		See detailed requirements for Spectrum access and mitigation requirement in related ERC Recommendation.
	Trans. capacity		
Direction / Separation			
Authorisation regime	Exempt from individual licensing		
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	CE Decision 2013/752/EU EN 302 858 ERC REC 70-03 Annex 5d2,3,4		Band no. 69a + 69b
Remarks			
Notification number	2012/305/L		
Equipment class	Class 1		Refer to Subclass 102 (Decision 2000/299/CE) (0.1mW eirp) Refer to Subclass 103 (Decision 2000/299/CE) (100mW eirp)

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Interface Regulations

SRD

Transport and Traffic Telematics (TTT)

Parameter	Description		Comment
Frequency band	24150 - 24250 MHz		Harmonised radio spectrum for use by short-range devices (2013/752/EU)
Radio Service	Mobile		
Application	Short Range Devices TTT		For vehicle radars
Channel / modulation	Channel spacing		
	Designation of emission		
	Modulation / Occupied bandwidth		
	Reference frequency		
Transmit power / Power density	Output power	100mW e.i.r.p.	
	Antenna Gain		
	Radiated power		
Channel access and occupation rules	Duty cycle		
	Access protocol		
	Trans. capacity		
Direction / Separation			
Authorisation regime	Exempt from individual licensing		
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	CE Decision 2013/752/EU EN 302 858 ERC REC 70-03 Annex 5d5		Band no. 70b
Remarks			
Notification number	2012/305/L		
Equipment class	Class 1		Refer to Subclass 104 (Decision 2000/299/CE)

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Interface Regulations

SRD

Transport and Traffic Telematics (TTT)

Parameter	Description		Comment
Frequency band	24250 - 24495 MHz		Harmonised radio spectrum for use by short-range devices (2013/752/EU)
Radio Service	Mobile		
Application	Short Range Devices TTT		For automotive radars
Channel / modulation	Channel spacing		
	Designation of emission		
	Modulation / Occupied bandwidth		
	Reference frequency		
Transmit power / Power density	Output power	-11 dBm e.i.r.p.	
	Antenna Gain		
	Radiated power		
Channel access and occupation rules	Duty cycle	$\leq 0.25\%/s/25\text{ MHz}$	
	Access protocol		
	Trans. capacity		
Direction / Separation			
Authorisation regime	Exempt from individual licensing		
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	Decision 2013/752/EU EN 302 858 ERC REC 70-03 Annex 5e1		Band no. 71
Remarks			
Notification number	2012/450/L		
Equipment class	Class 2		

Normative in accordance to the **TCAM RIG II** templateInformative in accordance to the **TCAM RIG II** template

Interface Regulations

SRD

Transport and Traffic Telematics (TTT)

Parameter	Description		Comment
Frequency band	24495 - 24500 MHz		Harmonised radio spectrum for use by short-range devices (2013/752/EU)
Radio Service	Mobile		
Application	Short Range Devices TTT		For automotive radars
Channel / modulation	Channel spacing		
	Designation of emission		
	Modulation / Occupied bandwidth		
	Reference frequency		
Transmit power / Power density	Output power	-8 dBm e.i.r.p.	
	Antenna Gain		
	Radiated power		
Channel access and occupation rules	Duty cycle	$\leq 1.5\%/s/5\text{ MHz}$	
	Access protocol		
	Trans. capacity		
Direction / Separation			
Authorisation regime	Exempt from individual licensing		
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	Decision 2013/752/EU EN 302 858 ERC REC 70-03 Annex 5e3		Band no. 73
Remarks			
Notification number	2012/450/L		
Equipment class	Class 1		Refer to Subclass 113 (Decision 2000/299/CE)

Normative in accordance to the **TCAM RIG II** templateInformative in accordance to the **TCAM RIG II** template

Interface Regulations

SRD

Transport and Traffic Telematics (TTT)

Parameter	Description		Comment
Frequency band	24250 - 24500 MHz		Harmonised radio spectrum for use by short-range devices (2013/752/EU)
Radio Service	Mobile		
Application	Short Range Devices TTT		For automotive radars
Channel / modulation	Channel spacing		
	Designation of emission		
	Modulation / Occupied bandwidth		
	Reference frequency		
Transmit power / Power density	Output power	a) 20 dBm eirp b) 16 dBm eirp	
	Antenna Gain		
	Radiated power		
Channel access and occupation rules	Duty cycle	a) $\leq 5.6\%/s/25\text{ MHz}$ b) $\leq 2.3\%/s/25\text{ MHz}$	
	Access protocol		
	Trans. capacity		
Direction / Separation			
Authorisation regime	Exempt from individual licensing		
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	Decision 2013/752/EU EN 302 858 ERC REC 70-03 Annex 5e2		Band no. 72
Remarks			
Notification number	2012/450/L		
Equipment class	Class 1		Refer to Subclass 112 (Decision 2000/299/CE)

Normative in accordance to the **TCAM RIG II** templateInformative in accordance to the **TCAM RIG II** template

Interface Regulations

SRD

Radiodetermination applications

Parameter	Description		Comment
Frequency band	2400 - 2483.5 MHz		Harmonised radio spectrum for use by short-range devices (2013/752/EU)
Radio Service	Mobile		
Application	Short Range Devices Radiodetermination applications		
Channel / modulation	Channel spacing	No spacing	
	Designation of emission		
	Modulation / Occupied bandwidth		
	Reference frequency		
Transmit power / Power density	Output power		
	Antenna Gain		
	Radiated power	25 mW e.i.r.p.	
Channel access and occupation rules	Duty cycle	No restriction	
	Access protocol		
	Trans. capacity		
Direction / Separation			
Authorisation regime	Exempt from individual licensing		
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	Decision 2013/752/EU EN 300 440 ERC REC 70-03 Annex 6c, ERC DEC (01)08		Band no.57b
Remarks			
Notification number	2005/0347/L		
Equipment class	Class 1		Refer to Sub-class 26 (2000/299/EC)



Normative in accordance to the **TCAM RIG II** template



Informative in accordance to the **TCAM RIG II** template

Interface Regulations

SRD

Radiodetermination applications

Parameter	Description		Comment
Frequency band	9200 - 9500 MHz		
Radio Service	Mobile		
Application	Short Range Devices Radiodetermination applications		
Channel / modulation	Channel spacing	No spacing	
	Designation of emission		
	Modulation / Occupied bandwidth		
	Reference frequency		
Transmit power / Power density	Output power		
	Antenna Gain		
	Radiated power	25 mW e.i.r.p.	
Channel access and occupation rules	Duty cycle	No restriction	
	Access protocol		
	Trans. capacity		
Direction / Separation			
Authorisation regime	Exempt from individual licensing		
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	EN 300 440 ERC REC 70-03 Annex 6h		
Remarks			
Notification number	2005/0347/L		
Equipment class	Class 2		

Normative in accordance to the **TCAM RIG II** templateInformative in accordance to the **TCAM RIG II** template

Interface Regulations

SRD

Radiodetermination applications

Parameter	Description		Comment
Frequency band	9500 - 9975 MHz		
Radio Service	Mobile		
Application	Short Range Devices Radiodetermination applications		
Channel / modulation	Channel spacing	No spacing	
	Designation of emission		
	Modulation / Occupied bandwidth		
	Reference frequency		
Transmit power / Power density	Output power		
	Antenna Gain		
	Radiated power	25 mW e.i.r.p.	
Channel access and occupation rules	Duty cycle	No restriction	
	Access protocol		
	Trans. capacity		
Direction / Separation			
Authorisation regime	Exempt from individual licensing		
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	EN 300 440 ERC REC 70-03 Annex 6i		
Remarks			
Notification number	2005/0347/L		
Equipment class	Class 2		

Normative in accordance to the **TCAM RIG II** templateInformative in accordance to the **TCAM RIG II** template

Interface Regulations

SRD

Radiodetermination applications

Parameter	Description		Comment
Frequency band	10.5 - 10.6 GHz		
Radio Service	Mobile		
Application	Short Range Devices Radiodetermination applications		
Channel / modulation	Channel spacing	No spacing	
	Designation of emission		
	Modulation / Occupied bandwidth		
	Reference frequency		
Transmit power / Power density	Output power		
	Antenna Gain		
	Radiated power	25 mW e.i.r.p.	
Channel access and occupation rules	Duty cycle	No restriction	
	Access protocol		
	Trans. capacity		
Direction / Separation			
Authorisation regime	Exempt from individual licensing. Power Limited to 25 mW e.i.r.p. in Luxembourg.		To avoid interferences with the fixed service (ERC Report 47)
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	EN 300 440		
Remarks			
Notification number	2005/0347/L		
Equipment class	Class 2		

Normative in accordance to the **TCAM RIG II** templateInformative in accordance to the **TCAM RIG II** template

Interface Regulations

SRD

Radiodetermination applications

Parameter	Description		Comment
Frequency band	13400 - 14000 MHz		
Radio Service	Mobile		
Application	Short Range Devices Radiodetermination applications		
Channel / modulation	Channel spacing	No spacing	
	Designation of emission		
	Modulation / Occupied bandwidth		
	Reference frequency		
Transmit power / Power density	Output power		
	Antenna Gain		
	Radiated power	25 mW e.i.r.p.	
Channel access and occupation rules	Duty cycle	No restriction	
	Access protocol		
	Trans. capacity		
Direction / Separation			
Authorisation regime	Exempt from individual licensing		
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	EN 300 440 ERC REC 70-03 Annex 6k		
Remarks			
Notification number	2005/0347/L		
Equipment class	Class 2		

Normative in accordance to the **TCAM RIG II** templateInformative in accordance to the **TCAM RIG II** template

Interface Regulations

SRD

Radiodetermination applications

Parameter	Description		Comment
Frequency band	24050 - 24250 MHz		
Radio Service	Mobile		
Application	Short Range Devices Radiodetermination applications		The frequency band 24.0–24.25 GHz is identified with the same emission parameters in Annex 1 band j of the ERC REC 70-03.
Channel / modulation	Channel spacing	No spacing	
	Designation of emission		
	Modulation / Occupied bandwidth		
	Reference frequency		
Transmit power / Power density	Output power		
	Antenna Gain		
	Radiated power	100 mW e.i.r.p.	
Channel access and occupation rules	Duty cycle	No restriction	
	Access protocol		
	Trans. capacity		
Direction / Separation			
Authorisation regime	Exempt from individual licensing		
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	EN 300 440 ERC REC 70-03 Annex 6m		
Remarks			
Notification number	2005/0347/L		
Equipment class	Class 2		

Normative in accordance to the **TCAM RIG II** templateInformative in accordance to the **TCAM RIG II** template

Interface Regulations

SRD

Radiodetermination applications

Parameter	Description		Comment
Frequency band	4500 - 7000 MHz		Harmonised radio spectrum for use by short-range devices (2013/752/EU)
Radio Service	Mobile		
Application	Short Range Devices Radiodetermination applications TLPR		
Channel / modulation	Channel spacing	No spacing	
	Designation of emission		
	Modulation / Occupied bandwidth		
	Reference frequency		
Transmit power / Power density	Output power		The power limit is the radiated emission outside an enclosed tank structure. The maximum emission inside an enclosed tank structure is 24 dBm e.i.r.p.
	Antenna Gain		
	Radiated power	-41.3 dBm/MHz e.i.r.p.	
Channel access and occupation rules	Duty cycle	No restriction	
	Access protocol		
	Trans. capacity		
Direction / Separation			
Authorisation regime	Exempt from individual licensing		
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	Decision 2013/752/EU EN 302 372 ERC REC 70-03 Annex 6f1		Band no. 60
Remarks			
Notification number	2008/338/L		
Equipment class	Class 1		Refer to Sub-class 89 (2000/299/EC)

Normative in accordance to the **TCAM RIG II** templateInformative in accordance to the **TCAM RIG II** template

Interface Regulations

SRD

Radiodetermination applications

Parameter	Description		Comment
Frequency band	8500 - 10600 MHz		Harmonised radio spectrum for use by short-range devices (2013/752/EU)
Radio Service	Mobile		
Application	Short Range Devices Radiodetermination applications TLPR		
Channel / modulation	Channel spacing	No spacing	
	Designation of emission		
	Modulation / Occupied bandwidth		
	Reference frequency		
Transmit power / Power density	Output power		The power limit is the radiated emission outside an enclosed tank structure. The maximum emission inside an enclosed tank structure is 30 dBm e.i.r.p. For the frequency range 10.6 - 10.7 GHz, the radiated unwanted emissions outside the tank enclosure shall be less than -60 dBm/MHz e.i.r.p.
	Antenna Gain		
	Radiated power	-41.3 dBm/MHz e.i.r.p.	
Channel access and occupation rules	Duty cycle	No restriction	
	Access protocol		
	Trans. capacity		
Direction / Separation			
Authorisation regime	Exempt from individual licensing		
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	Decision 2013/752/EU EN 302 372 ERC REC 70-03 Annex 6f2		Band no.64
Remarks			
Notification number	2008/338/L		
Equipment class	Class 1		Refer to Sub-class 90 (2000/299/EC)

Normative in accordance to the **TCAM RIG II** templateInformative in accordance to the **TCAM RIG II** template

Interface Regulations

SRD

Radiodetermination applications

Parameter	Description		Comment
Frequency band	24050 - 27000 MHz		Harmonised radio spectrum for use by short-range devices (2013/752/EU)
Radio Service	Mobile		
Application	Short Range Devices Radiodetermination applications TLPR		
Channel / modulation	Channel spacing	No spacing	
	Designation of emission		
	Modulation / Occupied bandwidth		
	Reference frequency		
Transmit power / Power density	Output power		The power limit is the radiated emission outside an enclosed tank structure. The maximum emission inside an enclosed tank structure is 43 dBm e.i.r.p
	Antenna Gain		
	Radiated power	-41.3 dBm/MHz e.i.r.p.	
Channel access and occupation rules	Duty cycle	No restriction	
	Access protocol		
	Trans. capacity		
Direction / Separation			
Authorisation regime	Exempt from individual licensing		
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	Decision 2013/752/EU EN 302 372 ERC REC 70-03 Annex 6f3		Band no.68
Remarks			
Notification number	2008/338/L		
Equipment class	Class 1		Refer to Sub-class 91 (2000/299/EC)

Normative in accordance to the **TCAM RIG II** templateInformative in accordance to the **TCAM RIG II** template

Interface Regulations

SRD

Radiodetermination applications

Parameter	Description		Comment
Frequency band	57000 - 64000 MHz		Harmonised radio spectrum for use by short-range devices (2013/752/EU)
Radio Service	Mobile		
Application	Short Range Devices Radiodetermination applications TLPR		
Channel / modulation	Channel spacing	No spacing	
	Designation of emission		
	Modulation / Occupied bandwidth		
	Reference frequency		
Transmit power / Power density	Output power		The power limit is the radiated emission outside an enclosed tank structure. The maximum emission inside an enclosed tank structure is 43 dBm e.i.r.p
	Antenna Gain		
	Radiated power	-41.3 dBm/MHz e.i.r.p.	
Channel access and occupation rules	Duty cycle	No restriction	
	Access protocol		
	Trans. capacity		
Direction / Separation			
Authorisation regime	Exempt from individual licensing		
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	Decision 2013/752/EU EN 302 372 ERC REC 70-03 Annex 6f4		Band no. 74b
Remarks			
Notification number	2008/338/L		
Equipment class	Class 1		Refer to Sub-class 92 (2000/299/EC)

Normative in accordance to the **TCAM RIG II** templateInformative in accordance to the **TCAM RIG II** template

Interface Regulations

SRD

Radiodetermination applications

Parameter	Description		Comment
Frequency band	75000 - 85000 MHz		Harmonised radio spectrum for use by short-range devices (2013/752/EU)
Radio Service	Mobile		
Application	Short Range Devices Radiodetermination applications TLPR		
Channel / modulation	Channel spacing	No spacing	
	Designation of emission		
	Modulation / Occupied bandwidth		
	Reference frequency		
Transmit power / Power density	Output power		The power limit is the radiated emission outside an enclosed tank structure. The maximum emission inside an enclosed tank structure is 43 dBm e.i.r.p.
	Antenna Gain		
	Radiated power	-41.3 dBm/MHz e.i.r.p.	
Channel access and occupation rules	Duty cycle	No restriction	
	Access protocol		
	Trans. capacity		
Direction / Separation			
Authorisation regime	Exempt from individual licensing		
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	Decision 2013/752/EU EN 302 372 ERC REC 70-03 Annex 6f5		Band no. 78b
Remarks			
Notification number	2008/338/L		
Equipment class	Class 1		Refer to Sub-class 93 (2000/299/EC)

Normative in accordance to the **TCAM RIG II** templateInformative in accordance to the **TCAM RIG II** template

Interface Regulations

SRD

Radiodetermination applications

Parameter	Description		Comment
Frequency band	6000 - 8500 MHz		Harmonised radio spectrum for use by short-range devices (2013/752/EU)
Radio Service	Mobile		
Application	Short Range Devices Radiodetermination applications LPR		
Channel / modulation	Channel spacing		See detail requirement in related ECC decision
	Designation of emission		
	Modulation / Occupied bandwidth		
	Reference frequency		
Transmit power / Power density	Output power	7 dBm/50 MHz peak eirp ; -33 dBm/MHz mean eirp	See detail requirement in related ECC decision.
	Antenna Gain		
	Radiated power		
Channel access and occupation rules	Duty cycle		See detail requirement in related ECC decision
	Access protocol		
	Trans. capacity		
Direction / Separation			
Authorisation regime	Exempt from individual licensing		
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	Decision 2013/752/EU EN 302 729 ERC REC 70-03 Annex 6g1, ECC/DEC/(11)02		Band no. 63
Remarks			
Notification number	2012/450/L		
Equipment class	Class 2		Refer to Sub-class H06 (2000/299/EC)

Normative in accordance to the **TCAM RIG II** templateInformative in accordance to the **TCAM RIG II** template

Interface Regulations

SRD

Radiodetermination applications

Parameter	Description		Comment
Frequency band	24050 - 26500 MHz		Harmonised radio spectrum for use by short-range devices (2013/752/EU)
Radio Service	Mobile		
Application	Short Range Devices Radiodetermination applications LPR		
Channel / modulation	Channel spacing		See detail requirement in related ECC decision
	Designation of emission		
	Modulation / Occupied bandwidth		
	Reference frequency		
Transmit power / Power density	Output power	26 dBm/50 MHz peak eirp; -14 dBm/MHz mean eirp	See detail requirement in related ECC decision
	Antenna Gain		
	Radiated power		
Channel access and occupation rules	Duty cycle		See detail requirement in related ECC decision
	Access protocol		
	Trans. capacity		
Direction / Separation			
Authorisation regime	Exempt from individual licensing		
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	Decision 2013/752/EU EN 302 729 ERC REC 70-03 Annex 6g2, ECC/DEC/(11)02		Band no. 67
Remarks			
Notification number	2012/450/L		
Equipment class	Class 2		Refer to Sub-class H07 (2000/299/EC)

Normative in accordance to the **TCAM RIG II** templateInformative in accordance to the **TCAM RIG II** template

Interface Regulations

SRD

Radiodetermination applications

Parameter	Description		Comment
Frequency band	57000 - 64000 MHz		Harmonised radio spectrum for use by short-range devices (2013/752/EU)
Radio Service	Mobile		
Application	Short Range Devices Radiodetermination applications LPR		
Channel / modulation	Channel spacing		See detail requirement in related ECC decision
	Designation of emission		
	Modulation / Occupied bandwidth		
	Reference frequency		
Transmit power / Power density	Output power	35 dBm/50 MHz peak eirp; -2 dBm/MHz mean eirp	See detail requirement in related ECC decision
	Antenna Gain		
	Radiated power		
Channel access and occupation rules	Duty cycle		See detail requirement in related ECC decision
	Access protocol		
	Trans. capacity		
Direction / Separation			
Authorisation regime	Exempt from individual licensing		
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	Decision 2013/752/EU EN 302 729 ERC REC 70-03 Annex 6g3, ECC/DEC/(11)02		Band no. 74c
Remarks			
Notification number	2012/450/L		
Equipment class	Class 1		Refer to Sub-class 127 (2000/299/EC)

Normative in accordance to the **TCAM RIG II** templateInformative in accordance to the **TCAM RIG II** template

Interface Regulations

SRD

Radiodetermination applications

Parameter	Description		Comment
Frequency band	75000 - 85000 MHz		Harmonised radio spectrum for use by short-range devices (2013/752/EU)
Radio Service	Mobile		
Application	Short Range Devices Radiodetermination applications LPR		
Channel / modulation	Channel spacing		See detail requirement in related ECC decision
	Designation of emission		
	Modulation / Occupied bandwidth		
	Reference frequency		
Transmit power / Power density	Output power	34 dBm/50 MHz peak eirp; -3 dBm/MHz mean eirp	See detail requirement in related ECC decision
	Antenna Gain		
	Radiated power		
Channel access and occupation rules	Duty cycle		See detail requirement in related ECC decision
	Access protocol		
	Trans. capacity		
Direction / Separation			
Authorisation regime	Exempt from individual licensing		
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	Decision 2013/752/EU EN 302 729 ERC REC 70-03 Annex 6g4, ECC/DEC/(11)02		Band no. 78a
Remarks			
Notification number	2012/450/L		
Equipment class	Class 2		Refer to Sub-class H08 (2000/299/EC)

Normative in accordance to the **TCAM RIG II** templateInformative in accordance to the **TCAM RIG II** template

Interface Regulations

SRD

Radiodetermination applications

Parameter	Description		Comment
Frequency band	17100 - 17300 MHz		Harmonised radio spectrum for use by short-range devices (2013/752/EU)
Radio Service	Mobile		
Application	Short Range Devices Radiodetermination applications GBSAR		
Channel / modulation	Channel spacing	No spacing	
	Designation of emission		
	Modulation / Occupied bandwidth		
	Reference frequency		
Transmit power / Power density	Output power		Specific requirements for the radar antenna pattern and for the implementation of DAA technique apply as described in EN 300440.
	Antenna Gain		
	Radiated power	+26 dBm e.i.r.p.	
Channel access and occupation rules	Duty cycle	Detect and Avoid (DAA)	Techniques to access spectrum and mitigate interference that provide at least equivalent performance to the techniques described in harmonised standards adopted under Directive 1999/5/EC must be used.
	Access protocol		
	Trans. capacity		
Direction / Separation			
Authorisation regime	Exempt from individual licensing		
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	Decision 2013/752/EU EN 300 440 ERC REC 70-03 Annex 6l		Band no. 65
Remarks			
Notification number	2008/338/L		
Equipment class	Class 1		Refer to Sub-class 88 (2000/299/EC)

Normative in accordance to the **TCAM RIG II** templateInformative in accordance to the **TCAM RIG II** template

Interface Regulations

SRD

Radiodetermination applications

Parameter	Description		Comment
Frequency band	30 - 12400 MHz		
Radio Service	Mobile		
Application	Short Range Devices UWB applications GPR/WPR		
Channel / modulation	Channel spacing		
	Designation of emission		
	Modulation / Occupied bandwidth		
	Reference frequency		
Transmit power / Power density	Output power		Detailed requirements in related ECC decision
	Antenna Gain		
	Radiated power		
Channel access and occupation rules	Duty cycle		
	Access protocol		
	Trans. capacity		
Direction / Separation			
Authorisation regime			
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	EN 302 066 ERC REC 70-03 Annex 6q, ECC/DEC/(06)08		
Remarks			
Notification number	2009/0375/L		
Equipment class	Class 2		

Normative in accordance to the **TCAM RIG II** templateInformative in accordance to the **TCAM RIG II** template

Interface Regulations

SRD

Radiodetermination applications

Parameter	Description		Comment
Frequency band	3100 - 4800 MHz		
Radio Service	Mobile		
	Land Mobile		
Application	Short Range Devices		LT2
	Tracking, tracing and data acquisition		
	LT2		
Channel / modulation	Channel spacing		
	Designation of emission		
	Modulation / Occupied bandwidth		
	Reference frequency		
Transmit power / Power density	Output power		Detailed requirements in related ECC recommendation
	Antenna Gain		
	Radiated power		
Channel access and occupation rules	Duty cycle		
	Access protocol		
	Trans. capacity		
Direction / Separation			
Authorisation regime	The use of LT2 devices is subject to declaration		
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	EN 302 065 ERC REC 70-03 Annex 6s1, ECC/REC/(11)09		
Remarks			
Notification number	2016/7/L		
Equipment class	Class 2		

Normative in accordance to the **TCAM RIG II** templateInformative in accordance to the **TCAM RIG II** template

Interface Regulations

SRD

Radiodetermination applications

Parameter	Description		Comment
Frequency band	3100 - 4800 MHz		
Radio Service	Mobile Land Mobile		
Application	Short Range Devices Tracking, tracing and data acquisition LAES		LAES
Channel / modulation	Channel spacing		
	Designation of emission		
	Modulation / Occupied bandwidth		
	Reference frequency		
Transmit power / Power density	Output power		Detailed requirements in related ECC recommendation
	Antenna Gain		
	Radiated power		
Channel access and occupation rules	Duty cycle		
	Access protocol		
	Trans. capacity		
Direction / Separation			
Authorisation regime	The use of LAES devices is subject to declaration		
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	EN 302 065 ERC REC 70-03 Annex 6s2, ECC/REC/(11)10		
Remarks			
Notification number	2016/7/L		
Equipment class	Class 2		

Normative in accordance to the **TCAM RIG II** templateInformative in accordance to the **TCAM RIG II** template

Interface Regulations

SRD

Alarms

Parameter	Description		Comment
Frequency band	868.6 - 868.7 MHz		Harmonised radio spectrum for use by short-range devices (2013/752/EU)
Radio Service	Mobile		
Application	Short Range Devices Alarms		Low duty cycle/high reliability devices
Channel / modulation	Channel spacing	25 kHz	The whole frequency band may also be used as one single channel for high speed data transmissions.
	Designation of emission		
	Modulation / Occupied bandwidth		
	Reference frequency		
Transmit power / Power density	Output power		
	Antenna Gain		
	Radiated power	10 mW e.r.p.	
Channel access and occupation rules	Duty cycle	< 1 %	
	Access protocol		
	Trans. capacity		
Direction / Separation			
Authorisation regime	Exempt from individual licensing		
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	Decision 2013/752/EU EN 300 220 ERC REC 70-03 Annex 7a		Band nr. 49
Remarks			
Notification number	2009/0375/L		
Equipment class	Class 1		Refer to Sub-class 32 (2000/299/EC)

Normative in accordance to the **TCAM RIG II** templateInformative in accordance to the **TCAM RIG II** template

Interface Regulations

SRD

Alarms

Parameter	Description		Comment
Frequency band	869.25 - 869.3 MHz		Harmonised radio spectrum for use by short-range devices (2013/752/EU)
Radio Service	Mobile		
Application	Short Range Devices Alarms		Low duty cycle/high reliability devices
Channel / modulation	Channel spacing	25 kHz	
	Designation of emission		
	Modulation / Occupied bandwidth		
	Reference frequency		
Transmit power / Power density	Output power		
	Antenna Gain		
	Radiated power	10 mW e.r.p.	
Channel access and occupation rules	Duty cycle	< 0.1 %	
	Access protocol		
	Trans. capacity		
Direction / Separation			
Authorisation regime	Exempt from individual licensing		
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	Decision 2013/752/EU EN 300 220 ERC REC 70-03 Annex 7c		Band nr. 52
Remarks			
Notification number	2009/0375/L		
Equipment class	Class 1		Refer to Sub-class 33 (2000/299/EC)

Normative in accordance to the **TCAM RIG II** templateInformative in accordance to the **TCAM RIG II** template

Interface Regulations

SRD

Alarms

Parameter	Description		Comment
Frequency band	869.3 - 869.4 MHz		Harmonised radio spectrum for use by short-range devices (2013/752/EU)
Radio Service	Mobile		
Application	Short Range Devices Alarms		Low duty cycle/high reliability devices
Channel / modulation	Channel spacing	25 kHz	
	Designation of emission		
	Modulation / Occupied bandwidth		
	Reference frequency		
Transmit power / Power density	Output power		
	Antenna Gain		
	Radiated power	10 mW e.r.p.	
Channel access and occupation rules	Duty cycle	<=1 %	
	Access protocol		
	Trans. capacity		
Direction / Separation			
Authorisation regime	Exempt from individual licensing		
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	Decision 2013/752/EU EN 300 220 ERC REC 70-03 Annex 7d		Band nr. 53
Remarks			
Notification number	2009/0375/L		
Equipment class	Class 1		Refer to Sub-class 72 (2000/299/EC)

Normative in accordance to the **TCAM RIG II** templateInformative in accordance to the **TCAM RIG II** template

Interface Regulations

SRD

Alarms

Parameter	Description		Comment
Frequency band	869.65 - 869.7 MHz		Harmonised radio spectrum for use by short-range devices (2013/752/EU)
Radio Service	Mobile		
Application	Short Range Devices Alarms		Low duty cycle/high reliability devices
Channel / modulation	Channel spacing	25 kHz	
	Designation of emission		
	Modulation / Occupied bandwidth		
	Reference frequency		
Transmit power / Power density	Output power		
	Antenna Gain		
	Radiated power	25 mW e.r.p.	
Channel access and occupation rules	Duty cycle	<10 %	
	Access protocol		
	Trans. capacity		
Direction / Separation			
Authorisation regime	Exempt from individual licensing		
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	Decision 2013/752/EU EN 300 220 ERC REC 70-03 Annex 7e		Band nr. 55
Remarks			
Notification number	2009/0375/L		
Equipment class	Class 1		Refer to Sub-class 34 (2000/299/EC)

Normative in accordance to the **TCAM RIG II** templateInformative in accordance to the **TCAM RIG II** template

Interface Regulations

SRD

Alarms

Parameter	Description		Comment
Frequency band	869.2 - 869.25 MHz		Harmonised radio spectrum for use by short-range devices (2013/752/EU)
Radio Service	Mobile		
Application	Short Range Devices Alarms Social alarms		Low duty cycle/high reliability devices. Social alarm devices are used to assist elderly or disabled people living at home when they are in distress
Channel / modulation	Channel spacing	25 kHz	
	Designation of emission		
	Modulation / Occupied bandwidth		
	Reference frequency		
Transmit power / Power density	Output power		
	Antenna Gain		
	Radiated power	10 mW e.r.p.	
Channel access and occupation rules	Duty cycle	<0.1 %	
	Access protocol		
	Trans. capacity		
Direction / Separation			
Authorisation regime	Exempt from individual licensing		
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	Decision 2013/752/EU EN 300 220 ERC REC 70-03 Annex 7b		Band nr. 51
Remarks			
Notification number	2009/0375/L		
Equipment class	Class 1		Refer to Sub-class 35 (2000/299/EC)

Normative in accordance to the **TCAM RIG II** templateInformative in accordance to the **TCAM RIG II** template

Interface Regulations

SRD

Model Control

Parameter	Description		Comment
Frequency band	26.995 - 26.995 MHz		Harmonised radio spectrum for use by short-range devices (2013/752/EU)
Radio Service	Mobile		
Application	Short Range Devices Model control		This frequency band is also identified for non-specific applications with a duty cycle of 0,1 %.
Channel / modulation	Channel spacing	10 kHz	
	Designation of emission		
	Modulation / Occupied bandwidth		
	Reference frequency		
Transmit power / Power density	Output power		
	Antenna Gain		
	Radiated power	100 mW e.r.p.	
Channel access and occupation rules	Duty cycle	No restriction	
	Access protocol		
	Trans. capacity		
Direction / Separation			
Authorisation regime	Exempt from individual licensing		
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	Decision 2013/752/EU EN 300 220 ERC REC 70-03 Annex 8a1		Band no.29
Remarks			
Notification number	2005/0347/L		
Equipment class	Class 1		Refer to Sub-class 94 (2000/299/EC)

Normative in accordance to the **TCAM RIG II** templateInformative in accordance to the **TCAM RIG II** template

Interface Regulations

SRD

Model Control

Parameter	Description		Comment
Frequency band	27.045 - 27.045 MHz		Harmonised radio spectrum for use by short-range devices (2013/752/EU)
Radio Service	Mobile		
Application	Short Range Devices Model control		This frequency band is also identified for non-specific applications with a duty cycle of 0,1 %.
Channel / modulation	Channel spacing	10 kHz	
	Designation of emission		
	Modulation / Occupied bandwidth		
	Reference frequency		
Transmit power / Power density	Output power		
	Antenna Gain		
	Radiated power	100 mW e.r.p.	
Channel access and occupation rules	Duty cycle	No restriction	
	Access protocol		
	Trans. capacity		
Direction / Separation			
Authorisation regime	Exempt from individual licensing		
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	Decision 2013/752/EU EN 300 220 ERC REC 70-03 Annex 8a2		Band no.30
Remarks			
Notification number	2005/0347/L		
Equipment class	Class 1		Refer to Sub-class 95 (2000/299/EC)

Normative in accordance to the **TCAM RIG II** templateInformative in accordance to the **TCAM RIG II** template

Interface Regulations

SRD

Model Control

Parameter	Description		Comment
Frequency band	27.095 - 27.095 MHz		Harmonised radio spectrum for use by short-range devices (2013/752/EU)
Radio Service	Mobile		
Application	Short Range Devices Model control		This frequency band is also identified for non-specific applications with a duty cycle of 0,1 %.
Channel / modulation	Channel spacing	10 kHz	
	Designation of emission		
	Modulation / Occupied bandwidth		
	Reference frequency		
Transmit power / Power density	Output power		
	Antenna Gain		
	Radiated power	100 mW e.r.p.	
Channel access and occupation rules	Duty cycle	No restriction	
	Access protocol		
	Trans. capacity		
Direction / Separation			
Authorisation regime	Exempt from individual licensing		
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	Decision 2013/752/EU EN 300 220 ERC REC 70-03 Annex 8a3		Band no. 31
Remarks			
Notification number	2005/0347/L		
Equipment class	Class 1		Refer to Sub-class 96 (2000/299/EC)

Normative in accordance to the **TCAM RIG II** templateInformative in accordance to the **TCAM RIG II** template

Interface Regulations

SRD

Model Control

Parameter	Description		Comment
Frequency band	27.145 - 27.145 MHz		Harmonised radio spectrum for use by short-range devices (2013/752/EU)
Radio Service	Mobile		
Application	Short Range Devices Model control		This frequency band is also identified for non-specific applications with a duty cycle of 0,1 %.
Channel / modulation	Channel spacing	10 kHz	
	Designation of emission		
	Modulation / Occupied bandwidth		
	Reference frequency		
Transmit power / Power density	Output power		
	Antenna Gain		
	Radiated power	100 mW e.r.p.	
Channel access and occupation rules	Duty cycle	No restriction	
	Access protocol		
	Trans. capacity		
Direction / Separation			
Authorisation regime	Exempt from individual licensing		
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	Decision 2013/752/EU EN 300 220 ERC REC 70-03 Annex 8a4		Band no. 32
Remarks			
Notification number	2005/0347/L		
Equipment class	Class 1		Refer to Sub-class 97 (2000/299/EC)

Normative in accordance to the **TCAM RIG II** templateInformative in accordance to the **TCAM RIG II** template

Interface Regulations

SRD

Model Control

Parameter	Description		Comment
Frequency band	27.195 - 27.195 MHz		Harmonised radio spectrum for use by short-range devices (2013/752/EU)
Radio Service	Mobile		
Application	Short Range Devices Model control		This frequency band is also identified for non-specific applications with a duty cycle of 0,1 %.
Channel / modulation	Channel spacing	10 kHz	
	Designation of emission		
	Modulation / Occupied bandwidth		
	Reference frequency		
Transmit power / Power density	Output power		
	Antenna Gain		
	Radiated power	100 mW e.r.p.	
Channel access and occupation rules	Duty cycle	No restriction	
	Access protocol		
	Trans. capacity		
Direction / Separation			
Authorisation regime	Exempt from individual licensing		
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	Decision 2013/752/EU EN 300 220 ERC REC 70-03 Annex 8a5		Band no.33
Remarks			
Notification number	2005/0347/L		
Equipment class	Class 1		Refer to Sub-class 98 (2000/299/EC)

Normative in accordance to the **TCAM RIG II** templateInformative in accordance to the **TCAM RIG II** template

Interface Regulations

SRD

Model Control

Parameter	Description		Comment
Frequency band	40.665 - 40.665 MHz		
Radio Service	Mobile		
Application	Short Range Devices Model control		
Channel / modulation	Channel spacing	10 kHz	
	Designation of emission		
	Modulation / Occupied bandwidth		
	Reference frequency		
Transmit power / Power density	Output power		
	Antenna Gain		
	Radiated power	100 mW e.r.p.	
Channel access and occupation rules	Duty cycle	No restriction	
	Access protocol		
	Trans. capacity		
Direction / Separation			
Authorisation regime	Exempt from individual licensing		
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	EN 300 220 ERC REC 70-03 Annex 8c1, ERC DEC (01)12		
Remarks			
Notification number	2005/0347/L		
Equipment class	Class 2		

Normative in accordance to the **TCAM RIG II** templateInformative in accordance to the **TCAM RIG II** template

Interface Regulations

SRD

Model Control

Parameter	Description		Comment
Frequency band	40.675 - 40.675 MHz		
Radio Service	Mobile		
Application	Short Range Devices Model control		
Channel / modulation	Channel spacing	10 kHz	
	Designation of emission		
	Modulation / Occupied bandwidth		
	Reference frequency		
Transmit power / Power density	Output power		
	Antenna Gain		
	Radiated power	100 mW e.r.p.	
Channel access and occupation rules	Duty cycle	No restriction	
	Access protocol		
	Trans. capacity		
Direction / Separation			
Authorisation regime	Exempt from individual licensing		
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	EN 300 220 ERC REC 70-03 Annex 8c2, ERC DEC (01)12		
Remarks			
Notification number	2005/0347/L		
Equipment class	Class 2		

Normative in accordance to the **TCAM RIG II** templateInformative in accordance to the **TCAM RIG II** template

Interface Regulations

SRD

Model Control

Parameter	Description		Comment
Frequency band	40.685 - 40.685 MHz		
Radio Service	Mobile		
Application	Short Range Devices Model control		
Channel / modulation	Channel spacing	10 kHz	
	Designation of emission		
	Modulation / Occupied bandwidth		
	Reference frequency		
Transmit power / Power density	Output power		
	Antenna Gain		
	Radiated power	100 mW e.r.p.	
Channel access and occupation rules	Duty cycle	No restriction	
	Access protocol		
	Trans. capacity		
Direction / Separation			
Authorisation regime	Exempt from individual licensing		
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	EN 300 220 ERC REC 70-03 Annex 8c3, ERC DEC (01)12		
Remarks			
Notification number	2005/0347/L		
Equipment class	Class 2		

Normative in accordance to the **TCAM RIG II** templateInformative in accordance to the **TCAM RIG II** template

Interface Regulations

SRD

Model Control

Parameter	Description		Comment
Frequency band	40.695 - 40.695 MHz		
Radio Service	Mobile		
Application	Short Range Devices Model control		
Channel / modulation	Channel spacing	10 kHz	
	Designation of emission		
	Modulation / Occupied bandwidth		
	Reference frequency		
Transmit power / Power density	Output power		
	Antenna Gain		
	Radiated power	100 mW e.r.p.	
Channel access and occupation rules	Duty cycle	No restriction	
	Access protocol		
	Trans. capacity		
Direction / Separation			
Authorisation regime	Exempt from individual licensing		
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	EN 300 220 ERC REC 70-03 Annex 8c4, ERC DEC (01)12		
Remarks			
Notification number	2005/0347/L		
Equipment class	Class 2		

Normative in accordance to the **TCAM RIG II** templateInformative in accordance to the **TCAM RIG II** template

Interface Regulations

SRD

Model Control / Flying models

Parameter	Description		Comment
Frequency band	34.995 - 35.225 MHz		
Radio Service	Mobile		
Application	Short Range Devices Model control Flying model control		
Channel / modulation	Channel spacing	10 kHz	
	Designation of emission		
	Modulation / Occupied bandwidth		
	Reference frequency		
Transmit power / Power density	Output power		
	Antenna Gain		
	Radiated power	100 mW e.r.p.	
Channel access and occupation rules	Duty cycle	No restriction	
	Access protocol		
	Trans. capacity		
Direction / Separation			
Authorisation regime	Exempt from individual licensing		
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	EN 300 220 ERC REC 70-03 Annex 8b, ERC DEC (01)11		
Remarks			
Notification number	2005/0347/L		
Equipment class	Class 2		



Normative in accordance to the **TCAM RIG II** template



Informative in accordance to the **TCAM RIG II** template

Interface Regulations

SRD

Inductive applications

Parameter	Description		Comment
Frequency band	0.009 - 0.09 MHz		Harmonised radio spectrum for use by short-range devices (2013/752/EU)
Radio Service	Mobile		
Application	Short Range Devices Inductive applications		Users should be aware that emissions from inductive applications could cause interference to nearby receivers of other radio services.
Channel / modulation	Channel spacing	No spacing	
	Designation of emission		
	Modulation / Occupied bandwidth		
	Reference frequency		
Transmit power / Power density	Output power		
	Antenna Gain		
	Radiated power	72 dBuA/m @ 10m	
Channel access and occupation rules	Duty cycle	No restriction	
	Access protocol		
	Trans. capacity		
Direction / Separation			
Authorisation regime	Exempt from individual licensing		
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	Decision 2013/752/EU EN 300 330 ERC REC 70-03 Annex 9a1		Band nr. 1,3,4,5,6,7,8
Remarks			
Notification number	2010/378/L		
Equipment class	Class 1		Refer to Sub-class 36,37,39,40a.b.c.d 2000/299/EC

Normative in accordance to the **TCAM RIG II** templateInformative in accordance to the **TCAM RIG II** template

Interface Regulations

SRD

Inductive applications

Parameter	Description		Comment
Frequency band	0.09 - 0.119 MHz		Harmonised radio spectrum for use by short-range devices (2013/752/EU)
Radio Service	Mobile		
Application	Short Range Devices Inductive applications		Users should be aware that emissions from inductive applications could cause interference to nearby receivers of other radio services.
Channel / modulation	Channel spacing	No spacing	
	Designation of emission		
	Modulation / Occupied bandwidth		
	Reference frequency		
Transmit power / Power density	Output power		
	Antenna Gain		
	Radiated power	42 dBuA/m @ 10m	
Channel access and occupation rules	Duty cycle	No restriction	
	Access protocol		
	Trans. capacity		
Direction / Separation			
Authorisation regime	Exempt from individual licensing		
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	Decision 2013/752/EU EN 300 330 ERC REC 70-03 Annex 9a2		Band nr.9
Remarks			
Notification number	2010/378/L		
Equipment class	Class 1		Refer to Sub-class 40e (2000/299/EC)

Normative in accordance to the **TCAM RIG II** templateInformative in accordance to the **TCAM RIG II** template

Interface Regulations

SRD

Inductive applications

Parameter	Description		Comment
Frequency band	0.119 - 0.135 MHz		Harmonised radio spectrum for use by short-range devices (2013/752/EU)
Radio Service	Mobile		
Application	Short Range Devices Inductive applications		Users should be aware that emissions from inductive applications could cause interference to nearby receivers of other radio services.
Channel / modulation	Channel spacing	No spacing	
	Designation of emission		
	Modulation / Occupied bandwidth		
	Reference frequency		
Transmit power / Power density	Output power		
	Antenna Gain		
	Radiated power	66 dBuA/m @ 10m	
Channel access and occupation rules	Duty cycle	No restriction	
	Access protocol		
	Trans. capacity		
Direction / Separation			
Authorisation regime	Exempt from individual licensing		
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	Decision 2013/752/EU EN 300 330 ERC REC 70-03 Annex 9a3		Band nr. 10,11,12
Remarks			
Notification number	2009/0375/L		
Equipment class	Class 1		Refer to Sub-class 41,42a,42b (2000/299/EC)

Normative in accordance to the **TCAM RIG II** templateInformative in accordance to the **TCAM RIG II** template

Interface Regulations

SRD

Inductive applications

Parameter	Description		Comment
Frequency band	0.135 - 0.14 MHz		Harmonised radio spectrum for use by short-range devices (2013/752/EU)
Radio Service	Mobile		
Application	Short Range Devices Inductive applications		Users should be aware that emissions from inductive applications could cause interference to nearby receivers of other radio services.
Channel / modulation	Channel spacing	No spacing	
	Designation of emission		
	Modulation / Occupied bandwidth		
	Reference frequency		
Transmit power / Power density	Output power		
	Antenna Gain		
	Radiated power	42 dBuA/m @ 10m	
Channel access and occupation rules	Duty cycle	No restriction	
	Access protocol		
	Trans. capacity		
Direction / Separation			
Authorisation regime	Exempt from individual licensing		
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	Decision 2013/752/EU EN 300 330 ERC REC 70-03 Annex 9b		Band nr. 13
Remarks			
Notification number	2009/0375/L		
Equipment class	Class 1		Refer to Subclass 106 (Decision 2000/299/CE)

Normative in accordance to the **TCAM RIG II** templateInformative in accordance to the **TCAM RIG II** template

Interface Regulations

SRD

Inductive applications

Parameter	Description		Comment
Frequency band	0.14 - 0.1485 MHz		Harmonised radio spectrum for use by short-range devices (2013/752/EU)
Radio Service	Mobile		
Application	Short Range Devices Inductive applications		Users should be aware that emissions from inductive applications could cause interference to nearby receivers of other radio services.
Channel / modulation	Channel spacing	No spacing	
	Designation of emission		
	Modulation / Occupied bandwidth		
	Reference frequency		
Transmit power / Power density	Output power		
	Antenna Gain		
	Radiated power	37.7 dBuA/m @ 10m	
Channel access and occupation rules	Duty cycle	No restriction	
	Access protocol		
	Trans. capacity		
Direction / Separation			
Authorisation regime	Exempt from individual licensing		
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	Decision 2013/752/EU EN 300 330 ERC REC 70-03 Annex 9c		Band nr. 14
Remarks			
Notification number	2009/0375/L		
Equipment class	Class 1		Refer to Sub-class 73 (2000/299/EC)

Normative in accordance to the **TCAM RIG II** templateInformative in accordance to the **TCAM RIG II** template

Interface Regulations

SRD

Inductive applications

Parameter	Description		Comment
Frequency band	6.765 - 6.795 MHz		Harmonised radio spectrum for use by short-range devices (2013/752/EU)
Radio Service	Mobile		
Application	Short Range Devices Inductive applications		Users should be aware that emissions from inductive applications could cause interference to nearby receivers of other radio services.
Channel / modulation	Channel spacing	No spacing	
	Designation of emission		
	Modulation / Occupied bandwidth		
	Reference frequency		
Transmit power / Power density	Output power		
	Antenna Gain		
	Radiated power	42 dBuA/m @ 10m	
Channel access and occupation rules	Duty cycle	No restriction	
	Access protocol		
	Trans. capacity		
Direction / Separation			
Authorisation regime	Exempt from individual licensing		
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	Decision 2013/752/EU EN 300 330 ERC REC 70-03 Annex 9f		Band nr. 22a
Remarks			
Notification number	2009/0375/L		
Equipment class	Class 1		Refer to Sub-class 44 (2000/299/EC)



Normative in accordance to the **TCAM RIG II** template



Informative in accordance to the **TCAM RIG II** template

Interface Regulations

SRD

Inductive applications

Parameter	Description		Comment
Frequency band	7.4 - 8.8 MHz		Harmonised radio spectrum for use by short-range devices (2013/752/EU)
Radio Service	Mobile		
Application	Short Range Devices Inductive applications		Users should be aware that emissions from inductive applications could cause interference to nearby receivers of other radio services.
Channel / modulation	Channel spacing	No spacing	
	Designation of emission		
	Modulation / Occupied bandwidth		
	Reference frequency		
Transmit power / Power density	Output power		
	Antenna Gain		
	Radiated power	9 dBuA/m @ 10m	
Channel access and occupation rules	Duty cycle	No restriction	
	Access protocol		
	Trans. capacity		
Direction / Separation			
Authorisation regime	Exempt from individual licensing		
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	Decision 2013/752/EU EN 300 330 ERC REC 70-03 Annex 9g		Band no.24
Remarks	Protection of nearby receivers of other radio services		
Notification number	2009/0375/L		
Equipment class	Class 1		Refer to Sub-class 45 (2000/299/EC)

Normative in accordance to the **TCAM RIG II** templateInformative in accordance to the **TCAM RIG II** template

Interface Regulations

SRD

Inductive applications

Parameter	Description		Comment
Frequency band	13.553 - 13.567 MHz		Harmonised radio spectrum for use by short-range devices (2013/752/EU)
Radio Service	Mobile		
Application	Short Range Devices Inductive applications		Users should be aware that emissions from inductive applications could cause interference to nearby receivers of other radio services.
Channel / modulation	Channel spacing	No spacing	
	Designation of emission		
	Modulation / Occupied bandwidth		
	Reference frequency		
Transmit power / Power density	Output power		
	Antenna Gain		
	Radiated power	42 dBuA/m @ 10m	
Channel access and occupation rules	Duty cycle	No restriction	
	Access protocol		
	Trans. capacity		
Direction / Separation			
Authorisation regime	Exempt from individual licensing		
Add. essential requirements			
Freq. planning assumption	ERC DEC (01)14		
Planned changes			
Reference	Decision 2013/752/EU EN 300 330, EN 302 291 ERC REC 70-03 Annex 9j		Band no. 27a
Remarks	Protection of nearby receivers of other radio services		
Notification number	2009/0375/L		
Equipment class	Class 1		Refer to Sub-class 116 (2000/299/EC)

Normative in accordance to the **TCAM RIG II** templateInformative in accordance to the **TCAM RIG II** template

Interface Regulations

SRD

Inductive applications

Parameter	Description		Comment
Frequency band	13.41 - 13.553 MHz		
Radio Service	Mobile		
Application	Short Range Devices Inductive applications		For RFID only. Only in connection with the frequency band defined in the interface "LUX/RI SRD-A9 10".
Channel / modulation	Channel spacing	No spacing	
	Designation of emission		
	Modulation / Occupied bandwidth		
	Reference frequency		
Transmit power / Power density	Output power		
	Antenna Gain		
	Radiated power	9 dBuA/m @ 10m	
Channel access and occupation rules	Duty cycle	No restriction	
	Access protocol		
	Trans. capacity		
Direction / Separation			
Authorisation regime	Exempt from individual licensing		
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	EN 300 330 ERC REC 70-03 Annex 9j1.4		
Remarks			
Notification number	2014/450/L		
Equipment class	Class 2		

Normative in accordance to the **TCAM RIG II** templateInformative in accordance to the **TCAM RIG II** template

Interface Regulations

SRD

Inductive applications

Parameter	Description		Comment
Frequency band	13.567 - 13.71 MHz		
Radio Service	Mobile		
Application	Short Range Devices Inductive applications		For RFID only. Only in connection with the frequency band defined in the interface "LUX/RI SRD-A9 10".
Channel / modulation	Channel spacing	No spacing	
	Designation of emission		
	Modulation / Occupied bandwidth		
	Reference frequency		
Transmit power / Power density	Output power		
	Antenna Gain		
	Radiated power	9 dBuA/m @ 10m	
Channel access and occupation rules	Duty cycle	No restriction	
	Access protocol		
	Trans. capacity		
Direction / Separation			
Authorisation regime	Exempt from individual licensing		
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	EN 300 330 ERC REC 70-03 Annex 9j1.5		
Remarks			
Notification number	2014/450/L		
Equipment class	Class 2		

Normative in accordance to the **TCAM RIG II** templateInformative in accordance to the **TCAM RIG II** template

Interface Regulations

SRD

Inductive applications

Parameter	Description		Comment
Frequency band	13.11 - 13.41 MHz		
Radio Service	Mobile		
Application	Short Range Devices Inductive applications		For RFID only. Only in connection with the frequency band defined in the interface "LUX/RI SRD-A9 10".
Channel / modulation	Channel spacing	No spacing	
	Designation of emission		
	Modulation / Occupied bandwidth		
	Reference frequency		
Transmit power / Power density	Output power		
	Antenna Gain		
	Radiated power	-3.5 dBuA/m @ 10m	
Channel access and occupation rules	Duty cycle	No restriction	
	Access protocol		
	Trans. capacity		
Direction / Separation			
Authorisation regime	Exempt from individual licensing		
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	EN 300 330 ERC REC 70-03 Annex 9j1.3		
Remarks			
Notification number	2014/450/L		
Equipment class	Class 2		

Normative in accordance to the **TCAM RIG II** templateInformative in accordance to the **TCAM RIG II** template

Interface Regulations

SRD

Inductive applications

Parameter	Description		Comment
Frequency band	13.71 - 14.01 MHz		
Radio Service	Mobile		
Application	Short Range Devices Inductive applications		For RFID only. Only in connection with the frequency band defined in the interface "LUX/RI SRD-A9 10".
Channel / modulation	Channel spacing	No spacing	
	Designation of emission		
	Modulation / Occupied bandwidth		
	Reference frequency		
Transmit power / Power density	Output power		
	Antenna Gain		
	Radiated power	-3.5 dBuA/m @ 10m	
Channel access and occupation rules	Duty cycle	No restriction	
	Access protocol		
	Trans. capacity		
Direction / Separation			
Authorisation regime	Exempt from individual licensing		
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	EN 300 330 ERC REC 70-03 Annex 9j1.6		
Remarks			
Notification number	2014/450/L		
Equipment class	Class 2		

Normative in accordance to the **TCAM RIG II** templateInformative in accordance to the **TCAM RIG II** template

Interface Regulations

SRD

Inductive applications

Parameter	Description		Comment
Frequency band	12.66 - 13.11 MHz		
Radio Service	Mobile		
Application	Short Range Devices Inductive applications		For RFID only. Only in connection with the frequency band defined in the interface "LUX/RI SRD-A9 10".
Channel / modulation	Channel spacing	No spacing	
	Designation of emission		
	Modulation / Occupied bandwidth		
	Reference frequency		
Transmit power / Power density	Output power		
	Antenna Gain		
	Radiated power	-10m dBuA/m @ 10m	
Channel access and occupation rules	Duty cycle	No restriction	
	Access protocol		
	Trans. capacity		
Direction / Separation			
Authorisation regime	Exempt from individual licensing		
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	EN 300 330 ERC REC 70-03 Annex 9j1.2		
Remarks			
Notification number	2014/450/L		
Equipment class	Class 2		

Normative in accordance to the **TCAM RIG II** templateInformative in accordance to the **TCAM RIG II** template

Interface Regulations

SRD

Inductive applications

Parameter	Description		Comment
Frequency band	14.01 - 14.46 MHz		
Radio Service	Mobile		
Application	Short Range Devices Inductive applications		For RFID only. Only in connection with the frequency band defined in the interface "LUX/RI SRD-A9 10".
Channel / modulation	Channel spacing	No spacing	
	Designation of emission		
	Modulation / Occupied bandwidth		
	Reference frequency		
Transmit power / Power density	Output power		
	Antenna Gain		
	Radiated power	-10m dBuA/m @ 10m	
Channel access and occupation rules	Duty cycle	No restriction	
	Access protocol		
	Trans. capacity		
Direction / Separation			
Authorisation regime	Exempt from individual licensing		
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	EN 300 330 ERC REC 70-03 Annex 9j1.7		
Remarks			
Notification number	2014/450/L		
Equipment class	Class 2		

Normative in accordance to the **TCAM RIG II** templateInformative in accordance to the **TCAM RIG II** template

Interface Regulations

SRD

Inductive applications

Parameter	Description		Comment
Frequency band	11.81 - 12.66 MHz		
Radio Service	Mobile		
Application	Short Range Devices Inductive applications		For RFID only. Only in connection with the frequency band defined in the interface "LUX/RI SRD-A9 10".
Channel / modulation	Channel spacing	No spacing	
	Designation of emission		
	Modulation / Occupied bandwidth		
	Reference frequency		
Transmit power / Power density	Output power		
	Antenna Gain		
	Radiated power	-16m dBuA/m @ 10m	
Channel access and occupation rules	Duty cycle	No restriction	
	Access protocol		
	Trans. capacity		
Direction / Separation			
Authorisation regime	Exempt from individual licensing		
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	EN 300 330 ERC REC 70-03 Annex 9j1.1		
Remarks			
Notification number	2014/450/L		
Equipment class	Class 2		

Normative in accordance to the **TCAM RIG II** templateInformative in accordance to the **TCAM RIG II** template

Interface Regulations

SRD

Inductive applications

Parameter	Description		Comment
Frequency band	14.46 - 15.31 MHz		
Radio Service	Mobile		
Application	Short Range Devices Inductive applications		For RFID only. Only in connection with the frequency band defined in the interface "LUX/RI SRD-A9 10".
Channel / modulation	Channel spacing	No spacing	
	Designation of emission		
	Modulation / Occupied bandwidth		
	Reference frequency		
Transmit power / Power density	Output power		
	Antenna Gain		
	Radiated power	-16m dBuA/m @ 10m	
Channel access and occupation rules	Duty cycle	No restriction	
	Access protocol		
	Trans. capacity		
Direction / Separation			
Authorisation regime	Exempt from individual licensing		
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	EN 300 330 ERC REC 70-03 Annex 9j1.8		
Remarks			
Notification number	2014/450/L		
Equipment class	Class 2		

Normative in accordance to the **TCAM RIG II** templateInformative in accordance to the **TCAM RIG II** template

Interface Regulations

SRD

Inductive applications

Parameter	Description		Comment
Frequency band	13.553 - 13.567 MHz		Harmonised radio spectrum for use by short-range devices (2013/752/EU)
Radio Service	Mobile		
Application	Short Range Devices Inductive applications		FOR RFID AND EAS ONLY ! Users should be aware that emissions from inductive applications could cause interference to nearby receivers of other radio services.
Channel / modulation	Channel spacing	No spacing	
	Designation of emission		
	Modulation / Occupied bandwidth		
	Reference frequency		
Transmit power / Power density	Output power		
	Antenna Gain		
	Radiated power	60 dBuA/m @ 10m	
Channel access and occupation rules	Duty cycle	No restriction	
	Access protocol		
	Trans. capacity		
Direction / Separation			
Authorisation regime	Exempt from individual licensing		
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	Decision 2013/752/EU EN 300 330, EN 302 291 ERC REC 70-03 Annex 9j2		Band no. 27b
Remarks	Protection of nearby receivers of other radio services		
Notification number	2009/0375/L		
Equipment class	Class 1		Refer to Sub-class 79 (2000/299/EC)

Normative in accordance to the **TCAM RIG II** templateInformative in accordance to the **TCAM RIG II** template

Interface Regulations

SRD

Inductive applications

Parameter	Description		Comment
Frequency band	13.46 - 13.553 MHz		
Radio Service	Mobile		
Application	Short Range Devices Inductive applications		FOR RFID ONLY ! Only in connection with the frequency band defined in the interface "LUX/RI SRD-A9 11".
Channel / modulation	Channel spacing	No spacing	
	Designation of emission		
	Modulation / Occupied bandwidth		
	Reference frequency		
Transmit power / Power density	Output power		
	Antenna Gain		
	Radiated power	27 dBuA/m @ 10m	
Channel access and occupation rules	Duty cycle	No restriction	
	Access protocol		
	Trans. capacity		
Direction / Separation			
Authorisation regime	Exempt from individual licensing		
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	EN 300 330 ERC REC 70-03 Annex 9j3.4		
Remarks			
Notification number	2014/450/L		
Equipment class	Class 2		

Normative in accordance to the **TCAM RIG II** templateInformative in accordance to the **TCAM RIG II** template

Interface Regulations

SRD

Inductive applications

Parameter	Description		Comment
Frequency band	13.567 - 13.66 MHz		
Radio Service	Mobile		
Application	Short Range Devices Inductive applications		FOR RFID ONLY ! Only in connection with the frequency band defined in the interface "LUX/RI SRD-A9 11".
Channel / modulation	Channel spacing	No spacing	
	Designation of emission		
	Modulation / Occupied bandwidth		
	Reference frequency		
Transmit power / Power density	Output power		
	Antenna Gain		
	Radiated power	27 dBuA/m @ 10m	
Channel access and occupation rules	Duty cycle	No restriction	
	Access protocol		
	Trans. capacity		
Direction / Separation			
Authorisation regime	Exempt from individual licensing		
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	EN 300 330 ERC REC 70-03 Annex 9j3.5		
Remarks			
Notification number	2014/450/L		
Equipment class	Class 2		

Normative in accordance to the **TCAM RIG II** templateInformative in accordance to the **TCAM RIG II** template

Interface Regulations

SRD

Inductive applications

Parameter	Description		Comment
Frequency band	13.36 - 13.46 MHz		
Radio Service	Mobile		
Application	Short Range Devices Inductive applications		FOR RFID ONLY ! Only in connection with the frequency band defined in the interface "LUX/RI SRD-A9 11".
Channel / modulation	Channel spacing	No spacing	
	Designation of emission		
	Modulation / Occupied bandwidth		
	Reference frequency		
Transmit power / Power density	Output power		
	Antenna Gain		
	Radiated power	Linear transition from 27 to -3.5 dBuA/m @ 10m	
Channel access and occupation rules	Duty cycle	No restriction	
	Access protocol		
	Trans. capacity		
Direction / Separation			
Authorisation regime	Exempt from individual licensing		
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	EN 300 330 ERC REC 70-03 Annex 9j3.3		
Remarks			
Notification number	2014/450/L		
Equipment class	Class 2		



Normative in accordance to the **TCAM RIG II** template



Informative in accordance to the **TCAM RIG II** template

Interface Regulations

SRD

Inductive applications

Parameter	Description		Comment
Frequency band	13.66 - 13.76 MHz		
Radio Service	Mobile		
Application	Short Range Devices Inductive applications		FOR RFID ONLY ! Only in connection with the frequency band defined in the interface "LUX/RI SRD-A9 11".
Channel / modulation	Channel spacing	No spacing	
	Designation of emission		
	Modulation / Occupied bandwidth		
	Reference frequency		
Transmit power / Power density	Output power		
	Antenna Gain		
	Radiated power	Linear transition from 27 to -3.5 dBuA/m @ 10m	
Channel access and occupation rules	Duty cycle	No restriction	
	Access protocol		
	Trans. capacity		
Direction / Separation			
Authorisation regime	Exempt from individual licensing		
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	EN 300 330 ERC REC 70-03 Annex 9j3.6		
Remarks			
Notification number	2014/450/L		
Equipment class	Class 2		

Normative in accordance to the **TCAM RIG II** templateInformative in accordance to the **TCAM RIG II** template

Interface Regulations

SRD

Inductive applications

Parameter	Description		Comment
Frequency band	13.11 - 13.36 MHz		
Radio Service	Mobile		
Application	Short Range Devices Inductive applications		FOR RFID ONLY ! Only in connection with the frequency band defined in the interface "LUX/RI SRD-A9 11".
Channel / modulation	Channel spacing	No spacing	
	Designation of emission		
	Modulation / Occupied bandwidth		
	Reference frequency		
Transmit power / Power density	Output power		
	Antenna Gain		
	Radiated power	-3.5 dBuA/m @ 10m	
Channel access and occupation rules	Duty cycle	No restriction	
	Access protocol		
	Trans. capacity		
Direction / Separation			
Authorisation regime	Exempt from individual licensing		
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	EN 300 330 ERC REC 70-03 Annex 9j3.2		
Remarks			
Notification number	2014/450/L		
Equipment class	Class 2		

Normative in accordance to the **TCAM RIG II** templateInformative in accordance to the **TCAM RIG II** template

Interface Regulations

SRD

Inductive applications

Parameter	Description		Comment
Frequency band	13.76 - 14.01 MHz		
Radio Service	Mobile		
Application	Short Range Devices Inductive applications		FOR RFID ONLY ! Only in connection with the frequency band defined in the interface "LUX/RI SRD-A9 11".
Channel / modulation	Channel spacing	No spacing	
	Designation of emission		
	Modulation / Occupied bandwidth		
	Reference frequency		
Transmit power / Power density	Output power		
	Antenna Gain		
	Radiated power	-3.5 dBuA/m @ 10m	
Channel access and occupation rules	Duty cycle	No restriction	
	Access protocol		
	Trans. capacity		
Direction / Separation			
Authorisation regime	Exempt from individual licensing		
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	EN 300 330 ERC REC 70-03 Annex 9j3.7		
Remarks			
Notification number	2014/450/L		
Equipment class	Class 2		

Normative in accordance to the **TCAM RIG II** templateInformative in accordance to the **TCAM RIG II** template

Interface Regulations

SRD

Inductive applications

Parameter	Description		Comment
Frequency band	12.66 - 13.11 MHz		
Radio Service	Mobile		
Application	Short Range Devices Inductive applications		FOR RFID ONLY ! Only in connection with the frequency band defined in the interface "LUX/RI SRD-A9 11".
Channel / modulation	Channel spacing	No spacing	
	Designation of emission		
	Modulation / Occupied bandwidth		
	Reference frequency		
Transmit power / Power density	Output power		
	Antenna Gain		
	Radiated power	-5 dBuA/m @ 10m	
Channel access and occupation rules	Duty cycle	No restriction	
	Access protocol		
	Trans. capacity		
Direction / Separation			
Authorisation regime	Exempt from individual licensing		
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	EN 300 330 ERC REC 70-03 Annex 9j3.1		
Remarks			
Notification number	2014/450/L		
Equipment class	Class 2		

Normative in accordance to the **TCAM RIG II** templateInformative in accordance to the **TCAM RIG II** template

Interface Regulations

SRD

Inductive applications

Parameter	Description		Comment
Frequency band	14.01 - 14.46 MHz		
Radio Service	Mobile		
Application	Short Range Devices Inductive applications		FOR RFID ONLY ! Only in connection with the frequency band defined in the interface "LUX/RI SRD-A9 11".
Channel / modulation	Channel spacing	No spacing	
	Designation of emission		
	Modulation / Occupied bandwidth		
	Reference frequency		
Transmit power / Power density	Output power		
	Antenna Gain		
	Radiated power	-5 dBuA/m @ 10m	
Channel access and occupation rules	Duty cycle	No restriction	
	Access protocol		
	Trans. capacity		
Direction / Separation			
Authorisation regime	Exempt from individual licensing		
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	EN 300 330 ERC REC 70-03 Annex 9j3.8		
Remarks			
Notification number	2014/450/L		
Equipment class	Class 2		

Normative in accordance to the **TCAM RIG II** templateInformative in accordance to the **TCAM RIG II** template

Interface Regulations

SRD

Inductive applications

Parameter	Description		Comment
Frequency band	26.957 - 27.283 MHz		Harmonised radio spectrum for use by short-range devices (2013/752/EU)
Radio Service	Mobile		
Application	Short Range Devices Inductive applications		Users should be aware that emissions from inductive applications could cause interference to nearby receivers of other radio services.
Channel / modulation	Channel spacing	No spacing	
	Designation of emission		
	Modulation / Occupied bandwidth		
	Reference frequency		
Transmit power / Power density	Output power		
	Antenna Gain		
	Radiated power	42 dBuA/m @ 10m	
Channel access and occupation rules	Duty cycle	No restriction	
	Access protocol		
	Trans. capacity		
Direction / Separation			
Authorisation regime	Exempt from individual licensing		
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	Decision 2013/752/EU EN 300 330 ERC REC 70-03 Annex 9i		Band no. 28a
Remarks	Protection of nearby receivers of other radio services		
Notification number	2009/0375/L		
Equipment class	Class 1		Refer to Sub-class 115 (2000/299/EC)

Normative in accordance to the **TCAM RIG II** templateInformative in accordance to the **TCAM RIG II** template

Interface Regulations

SRD

Inductive applications

Parameter	Description		Comment
Frequency band	10.2 - 11 MHz		Harmonised radio spectrum for use by short-range devices (2013/752/EU)
Radio Service	Mobile		
Application	Short Range Devices Inductive applications		Users should be aware that emissions from inductive applications could cause interference to nearby receivers of other radio services.
Channel / modulation	Channel spacing	No spacing	
	Designation of emission		
	Modulation / Occupied bandwidth		
	Reference frequency		
Transmit power / Power density	Output power		
	Antenna Gain		
	Radiated power	9dBuA/m @ 10m	
Channel access and occupation rules	Duty cycle	No restriction	
	Access protocol		
	Trans. capacity		
Direction / Separation			
Authorisation regime	Exempt from individual licensing		
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	Decision 2013/752/EU EN 300 330 ERC REC 70-03 Annex 9h		Band no. 25
Remarks	Protection of nearby receivers of other radio services		
Notification number	2009/0375/L		
Equipment class	Class 1		Refer to Sub-class 78 (2000/299/EC)

Normative in accordance to the **TCAM RIG II** templateInformative in accordance to the **TCAM RIG II** template

Interface Regulations

SRD

Inductive applications

Parameter	Description		Comment
Frequency band	3.155 - 3.4 MHz		Harmonised radio spectrum for use by short-range devices (2013/752/EU)
Radio Service	Mobile		
Application	Short Range Devices Inductive applications		Users should be aware that emissions from inductive applications could cause interference to nearby receivers of other radio services.
Channel / modulation	Channel spacing	No spacing	
	Designation of emission		
	Modulation / Occupied bandwidth		
	Reference frequency		
Transmit power / Power density	Output power		
	Antenna Gain		
	Radiated power	13.5 dBuA/m @ 10m	
Channel access and occupation rules	Duty cycle	No restriction	
	Access protocol		
	Trans. capacity		
Direction / Separation			
Authorisation regime	Exempt from individual licensing		
Add. essential requirements			
Freq. planning assumption	In case of external antennas only loop coil antennas may be employed		
Planned changes			
Reference	Decision 2013/752/EU EN 300 330 ERC REC 70-03 Annex 9e		Band no.20
Remarks			
Notification number	2009/0375/L		
Equipment class	Class 1		Refer to Sub-class 76 (2000/299/EC)

Normative in accordance to the **TCAM RIG II** templateInformative in accordance to the **TCAM RIG II** template

Interface Regulations

SRD

Inductive applications

Parameter	Description		Comment
Frequency band	0.1485 - 5 MHz		Harmonised radio spectrum for use by short-range devices (2013/752/EU)
Radio Service	Mobile		
Application	Short Range Devices Inductive applications		
Channel / modulation	Channel spacing	No spacing	
	Designation of emission		
	Modulation / Occupied bandwidth		
	Reference frequency		
Transmit power / Power density	Output power		The maximum field strength is specified in a bandwidth of 10 kHz. The maximum allowed total field strength is -5 dBuA/m at 10 m for systems operating at bandwidths larger than 10 kHz whilst keeping the density limit (-15 dBuA/m in a bandwidth of 10 kHz).
	Antenna Gain		
	Radiated power	-15 dBuA/m @ 10 m	
Channel access and occupation rules	Duty cycle	No Restriction	
	Access protocol		
	Trans. capacity		
Direction / Separation			
Authorisation regime	Exempt from individual licensing		
Add. essential requirements			
Freq. planning assumption	In case of external antennas only loop coil antennas may be employed		
Planned changes			
Reference	Decision 2013/752/EU EN 300 330 ERC REC 70-03 Annex 9k1		Band nr.15
Remarks			
Notification number	2009/0375/L		
Equipment class	Class 1		Refer to Sub-class 74 (2000/299/EC)

Normative in accordance to the **TCAM RIG II** templateInformative in accordance to the **TCAM RIG II** template

Interface Regulations

SRD

Inductive applications

Parameter	Description		Comment
Frequency band	5 - 30 MHz		Harmonised radio spectrum for use by short-range devices (2013/752/EU)
Radio Service	Mobile		
Application	Short Range Devices Inductive applications		
Channel / modulation	Channel spacing	No spacing	
	Designation of emission		
	Modulation / Occupied bandwidth		
	Reference frequency		
Transmit power / Power density	Output power		The maximum field strength is specified in a bandwidth of 10 kHz. The maximum allowed total field strength is -5 dBuA/m at 10 m for systems operating at bandwidths larger than 10 kHz whilst keeping the density limit (-20 dBuA/m in a bandwidth of 10 kHz).
	Antenna Gain		
	Radiated power	-20 dBuA/m @ 10 m	
Channel access and occupation rules	Duty cycle	No Restriction	
	Access protocol		
	Trans. capacity		
Direction / Separation			
Authorisation regime	Exempt from individual licensing		
Add. essential requirements			
Freq. planning assumption	In case of external antennas only loop coil antennas may be employed		
Planned changes			
Reference	Decision 2013/752/EU EN 300 330 ERC REC 70-03 Annex 9k2		Band no.21
Remarks			
Notification number	2009/0375/L		
Equipment class	Class 1		Refer to Sub-class 77 (2000/299/EC)

Normative in accordance to the **TCAM RIG II** templateInformative in accordance to the **TCAM RIG II** template

Interface Regulations

SRD

Inductive applications

Parameter	Description		Comment
Frequency band	0.4 - 0.6 MHz		Harmonised radio spectrum for use by short-range devices (2013/752/EU)
Radio Service	Mobile		
Application	Short Range Devices Inductive applications		For RFID only !
Channel / modulation	Channel spacing	No spacing	
	Designation of emission		
	Modulation / Occupied bandwidth		
	Reference frequency		
Transmit power / Power density	Output power		The maximum field strength is specified in a bandwidth of 10 kHz.
	Antenna Gain		The maximum allowed total field strength is -5 dBuA/m at 10 m for systems operating at bandwidths larger than 10 kHz measured at the center frequency whilst keeping the density limit (-8 dBuA/m in a bandwidth of 10 kHz).
	Radiated power	-8 dBuA/m @ 10 m	These systems should operate with a minimum operating bandwidth of 30 kHz.
Channel access and occupation rules	Duty cycle	No Restriction	
	Access protocol		
	Trans. capacity		
Direction / Separation			
Authorisation regime	Exempt from individual licensing		
Add. essential requirements			
Freq. planning assumption	In case of external antennas only loop coil antennas may be employed		
Planned changes			
Reference	Decision 2013/752/EU EN 300 330 ERC REC 70-03 Annex 9d		Band nr. 17
Remarks			
Notification number	2009/0375/L		
Equipment class	Class 1		Refer to Sub-class 75 (2000/299/EC)

Normative in accordance to the **TCAM RIG II** templateInformative in accordance to the **TCAM RIG II** template

Interface Regulations

SRD

Radio microphones including Assistive Listening Devices, Wireless Audio and Multimedia Streaming Systems

Parameter	Description		Comment
Frequency band	29.7 - 47 MHz		
Radio Service	Mobile		
Application	Short Range Devices Radio microphones and ALD		Radio microphones
Channel / modulation	Channel spacing	50 kHz	
	Designation of emission		
	Modulation / Occupied bandwidth		
	Reference frequency		
Transmit power / Power density	Output power		
	Antenna Gain		
	Radiated power	10 mW e.r.p.	
Channel access and occupation rules	Duty cycle	up to 100%	
	Access protocol		
	Trans. capacity		
Direction / Separation			
Authorisation regime	Exempt from individual licensing		
Add. essential requirements			
Freq. planning assumption	Frequency band of 34.995 - 35.225 MHz shall not be used. (Only for flying models)		
Planned changes			
Reference	EN 300 422 ERC REC 70-03 Annex 10a		
Remarks			
Notification number	2005/347/L		
Equipment class	Class 2		



Normative in accordance to the **TCAM RIG II** template



Informative in accordance to the **TCAM RIG II** template

Interface Regulations

SRD

Radio microphones including Assistive Listening Devices, Wireless Audio and Multimedia Streaming Systems

Parameter	Description		Comment
Frequency band	173.965 - 216 MHz		
Radio Service	Mobile		
Application	Short Range Devices Radio microphones and ALD		
Channel / modulation	Channel spacing	50 kHz	
	Designation of emission		
	Modulation / Occupied bandwidth		
	Reference frequency		
Transmit power / Power density	Output power		
	Antenna Gain		
	Radiated power	10 mW e.r.p.	
Channel access and occupation rules	Duty cycle	<= 50kHz	
	Access protocol		
	Trans. capacity		
Direction / Separation			
Authorisation regime	Exempt from individual licensing		
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	EN 300 422 ERC REC 70-03 Annex 10d, ECC Report 230		
Remarks			
Notification number	2016/7/L		
Equipment class	Class 2		



Normative in accordance to the **TCAM RIG II** template



Informative in accordance to the **TCAM RIG II** template

Interface Regulations

SRD

Radio microphones including Assistive Listening Devices, Wireless Audio and Multimedia Streaming Systems

Parameter	Description		Comment
Frequency band	863 - 865 MHz		
Radio Service	Mobile		
Application	Short Range Devices Radio microphones and ALD Radio microphones		Radio microphones including wireless audio and multimedia streaming devices
Channel / modulation	Channel spacing	No spacing	
	Designation of emission		
	Modulation / Occupied bandwidth		
	Reference frequency		
Transmit power / Power density	Output power		
	Antenna Gain		
	Radiated power	10 mW e.r.p.	
Channel access and occupation rules	Duty cycle	up to 100%	
	Access protocol		
	Trans. capacity		
Direction / Separation			
Authorisation regime	Exempt from individual licensing		
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	Decision 2013/752/EU EN 301 357, EN 300 422 ERC REC 70-03 Annex 10g		Band no. 46b (wireless audio and multimedia streaming devices)
Remarks			
Notification number	2009/0375/L		
Equipment class	Class 1		Refer to Sub-class 48 (2000/299/EC)



Normative in accordance to the **TCAM RIG II** template



Informative in accordance to the **TCAM RIG II** template

Interface Regulations

SRD

Radio microphones including Assistive Listening Devices, Wireless Audio and Multimedia Streaming Systems

Parameter	Description		Comment
Frequency band	916.1 - 916.5 MHz		Center frequencies: 916.3 MHz, 917.5 MHz, 918.7 MHz and 919.9 MHz.
Radio Service	Mobile		
Application	Short Range Devices Radio microphones and ALD		Indoor Digital Assistive Listening Device Systems. The frequency band is also used for non-specific SRDs and RFID applications
Channel / modulation	Channel spacing	≤ 400 kHz	
	Designation of emission		
	Modulation / Occupied bandwidth		
	Reference frequency		
Transmit power / Power density	Output power		
	Antenna Gain		
	Radiated power	10 mW e.r.p.	
Channel access and occupation rules	Duty cycle	$\leq 25\%$	
	Access protocol		
	Trans. capacity		
Direction / Separation			
Authorisation regime	Exempt from individual licensing		
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	EN 300 422 ERC REC 70-03 Annex 10h1		
Remarks			
Notification number	2014/450/L		
Equipment class	Class 2		



Normative in accordance to the **TCAM RIG II** template



Informative in accordance to the **TCAM RIG II** template

Interface Regulations

SRD

Radio microphones including Assistive Listening Devices, Wireless Audio and Multimedia Streaming Systems

Parameter	Description		Comment
Frequency band	917.3 - 917.7 MHz		Center frequencies: 916.3 MHz, 917.5 MHz, 918.7 MHz and 919.9 MHz.
Radio Service	Mobile		
Application	Short Range Devices Radio microphones and ALD		Indoor Digital Assistive Listening Device Systems. The frequency band is also used for non-specific SRDs and RFID applications
Channel / modulation	Channel spacing	≤ 400 kHz	
	Designation of emission		
	Modulation / Occupied bandwidth		
	Reference frequency		
Transmit power / Power density	Output power		
	Antenna Gain		
	Radiated power	10 mW e.r.p.	
Channel access and occupation rules	Duty cycle	$\leq 25\%$	
	Access protocol		
	Trans. capacity		
Direction / Separation			
Authorisation regime	Exempt from individual licensing		
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	EN 300 422 ERC REC 70-03 Annex 10h2		
Remarks			
Notification number	2014/450/L		
Equipment class	Class 2		



Normative in accordance to the **TCAM RIG II** template



Informative in accordance to the **TCAM RIG II** template

Interface Regulations

SRD

Radio microphones including Assistive Listening Devices, Wireless Audio and Multimedia Streaming Systems

Parameter	Description		Comment
Frequency band	918.5 - 918.9 MHz		Center frequencies: 916.3 MHz, 917.5 MHz, 918.7 MHz and 919.9 MHz.
Radio Service	Mobile		
Application	Short Range Devices Radio microphones and ALD		Indoor Digital Assistive Listening Device Systems. The frequency band is also used for non-specific SRDs and RFID applications
Channel / modulation	Channel spacing	<= 400 kHz	
	Designation of emission		
	Modulation / Occupied bandwidth		
	Reference frequency		
Transmit power / Power density	Output power		
	Antenna Gain		
	Radiated power	10 mW e.r.p.	
Channel access and occupation rules	Duty cycle	<= 25%	
	Access protocol		
	Trans. capacity		
Direction / Separation			
Authorisation regime	Exempt from individual licensing		
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	EN 300 422 ERC REC 70-03 Annex 10h3		
Remarks			
Notification number	2014/450/L		
Equipment class	Class 2		



Normative in accordance to the **TCAM RIG II** template



Informative in accordance to the **TCAM RIG II** template

Interface Regulations

SRD

Radio microphones including Assistive Listening Devices, Wireless Audio and Multimedia Streaming Systems

Parameter	Description		Comment
Frequency band	919.7 - 920.1 MHz		Center frequencies: 916.3 MHz, 917.5 MHz, 918.7 MHz and 919.9 MHz.
Radio Service	Mobile		
Application	Short Range Devices Radio microphones and ALD		Indoor Digital Assistive Listening Device Systems. The frequency band is also used for non-specific SRDs and RFID applications
Channel / modulation	Channel spacing	≤ 400 kHz	
	Designation of emission		
	Modulation / Occupied bandwidth		
	Reference frequency		
Transmit power / Power density	Output power		
	Antenna Gain		
	Radiated power	10 mW e.r.p.	
Channel access and occupation rules	Duty cycle	$\leq 25\%$	
	Access protocol		
	Trans. capacity		
Direction / Separation			
Authorisation regime	Exempt from individual licensing		
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	EN 300 422 ERC REC 70-03 Annex 10h4		
Remarks			
Notification number	2014/450/L		
Equipment class	Class 2		



Normative in accordance to the **TCAM RIG II** template



Informative in accordance to the **TCAM RIG II** template

Interface Regulations

SRD

Radio microphones including Assistive Listening Devices, Wireless Audio and Multimedia Streaming Systems

Parameter	Description		Comment
Frequency band	174 - 216 MHz		On a tuning range basis
Radio Service	Mobile		
Application	Short Range Devices Radio microphones and ALD Radio microphones		
Channel / modulation	Channel spacing		
	Designation of emission		
	Modulation / Occupied bandwidth		
	Reference frequency		
Transmit power / Power density	Output power		
	Antenna Gain		
	Radiated power	50 mW e.r.p.	
Channel access and occupation rules	Duty cycle	up to 100%	
	Access protocol		
	Trans. capacity		
Direction / Separation			
Authorisation regime	Exempt from individual licensing		
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	EN 300 422 ERC REC 70-03 Annex 10e		
Remarks			
Notification number	2011/466/L		
Equipment class	Class 2		



Normative in accordance to the **TCAM RIG II** template



Informative in accordance to the **TCAM RIG II** template

Interface Regulations

SRD

Radio microphones including Assistive Listening Devices, Wireless Audio and Multimedia Streaming Systems

Parameter	Description		Comment
Frequency band	470 - 786 MHz		On a tuning range basis
Radio Service	Mobile		THE FREQUENCY BAND OF 694-790 MHz WILL BE ALLOCATED TO THE MOBILE SERVICE IN NEAR FUTURE!
Application	Short Range Devices Radio microphones and ALD Radio microphones		
Channel / modulation	Channel spacing	No spacing	
	Designation of emission		
	Modulation / Occupied bandwidth		
	Reference frequency		
Transmit power / Power density	Output power		
	Antenna Gain		
	Radiated power	50 mW e.r.p.	
Channel access and occupation rules	Duty cycle	up to 100%	
	Access protocol		
	Trans. capacity		
Direction / Separation			
Authorisation regime	Exempt from individual licensing.		
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	EN 300 422 ERC REC 70-03 Annex 10f1		
Remarks			
Notification number	2011/466/L		
Equipment class	Class 2		



Normative in accordance to the **TCAM RIG II** template



Informative in accordance to the **TCAM RIG II** template

Interface Regulations

SRD

Radio microphones including Assistive Listening Devices, Wireless Audio and Multimedia Streaming Systems

Parameter	Description		Comment
Frequency band	786 - 789 MHz		On a tuning range basis
Radio Service	Mobile		THE FREQUENCY BAND OF 694-790 MHz WILL BE ALLOCATED TO THE MOBILE SERVICE IN NEAR FUTURE!
Application	Short Range Devices Radio microphones and ALD Radio microphones		
Channel / modulation	Channel spacing	No spacing	See technical conditions for PMSE (including radio microphones) in Annex 3 of Decision ECC/DEC/(09)03 section 3.1.
	Designation of emission		
	Modulation / Occupied bandwidth		
	Reference frequency		
Transmit power / Power density	Output power		
	Antenna Gain		
	Radiated power	12mW e.r.p.	
Channel access and occupation rules	Duty cycle	up to 100%	
	Access protocol		
	Trans. capacity		
Direction / Separation			
Authorisation regime	Exempt from individual licensing.		
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	EN 300 422 ERC REC 70-03 Annex 10f2		
Remarks			
Notification number	2011/466/L		
Equipment class	Class 2		



Normative in accordance to the **TCAM RIG II** template



Informative in accordance to the **TCAM RIG II** template

Interface Regulations

SRD

Radio microphones including Assistive Listening Devices, Wireless Audio and Multimedia Streaming Systems

Parameter	Description		Comment
Frequency band	823 - 826 MHz		Harmonised radio spectrum for use by PMSE (2014/641/EU)
Radio Service	Mobile		
Application	Short Range Devices Radio microphones and ALD Radio microphones		
Channel / modulation	Channel spacing	200 kHz	
	Designation of emission		
	Modulation / Occupied bandwidth		
	Reference frequency		
Transmit power / Power density	Output power		100 mW restricted to body worn microphones. See technical conditions for PMSE (including radio microphones) in Annex 3 of Decision ECC/DEC/(09)03 section 3.1.
	Antenna Gain		
	Radiated power	20mW e.i.r.p. 100mW e.i.r.p.	
Channel access and occupation rules	Duty cycle		
	Access protocol		
	Trans. capacity		
Direction / Separation			
Authorisation regime	Exempt from individual licensing.		
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	Decision 2014/641/EU EN 300 422 ERC REC 70-03 Annex 10f3		Block Edge Masks are defined in Decision 2014/641/EU
Remarks			
Notification number	2011/466/L		
Equipment class	Class 2		



Normative in accordance to the **TCAM RIG II** template



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Interface Regulations

SRD

Radio microphones including Assistive Listening Devices, Wireless Audio and Multimedia Streaming Systems

Parameter	Description		Comment
Frequency band	826 - 832 MHz		Harmonised radio spectrum for use by PMSE (2014/641/EU)
Radio Service	Mobile		
Application	Short Range Devices Radio microphones and ALD Radio microphones		
Channel / modulation	Channel spacing	200 kHz	See technical conditions for PMSE (including radio microphones) in Annex 3 of Decision ECC/DEC/(09)03 section 3.1.
	Designation of emission		
	Modulation / Occupied bandwidth		
	Reference frequency		
Transmit power / Power density	Output power		
	Antenna Gain		
	Radiated power	100mW e.i.r.p.	
Channel access and occupation rules	Duty cycle		
	Access protocol		
	Trans. capacity		
Direction / Separation			
Authorisation regime	Exempt from individual licensing.		
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	Decision 2014/641/EU EN 300 422 ERC REC 70-03 Annex 10f4		Block Edge Masks are defined in Decision 2014/641/EU
Remarks			
Notification number	2011/466/L		
Equipment class	Class 2		



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Interface Regulations

SRD

Radio microphones including Assistive Listening Devices, Wireless Audio and Multimedia Streaming Systems

Parameter	Description		Comment
Frequency band	1785 - 1795 MHz		Harmonised radio spectrum for use by PMSE (2014/641/EU)
Radio Service	Mobile		
Application	Short Range Devices Radio microphones and ALD Radio microphones		
Channel / modulation	Channel spacing	No spacing	
	Designation of emission		
	Modulation / Occupied bandwidth		
	Reference frequency		
Transmit power / Power density	Output power		
	Antenna Gain		50 mW e.i.r.p. restricted to body worn microphones.
	Radiated power	20 mW e.i.r.p. 50 mW e.i.r.p.	
Channel access and occupation rules	Duty cycle	up to 100%	
	Access protocol		
	Trans. capacity		
Direction / Separation			
Authorisation regime	Exempt from individual licensing.		
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	Decision 2014/641/EU EN 300 422 ERC REC 70-03 Annex 10j1		Block Edge Masks are defined in Decision 2014/641/EU
Remarks			
Notification number	2011/466/L		
Equipment class	Class 2		



Normative in accordance to the **TCAM RIG II** template



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Interface Regulations

SRD

Radio microphones including Assistive Listening Devices, Wireless Audio and Multimedia Streaming Systems

Parameter	Description		Comment
Frequency band	1795 - 1800 MHz		Harmonised radio spectrum for use by PMSE (2014/641/EU)
Radio Service	Mobile		
Application	Short Range Devices Radio microphones and ALD Radio microphones		The frequency band is also used for wireless audio applications
Channel / modulation	Channel spacing	No spacing	
	Designation of emission		
	Modulation / Occupied bandwidth		
	Reference frequency		
Transmit power / Power density	Output power		
	Antenna Gain		50 mW e.i.r.p. restricted to body worn microphones.
	Radiated power	20 mW e.i.r.p. 50 mW e.i.r.p.	
Channel access and occupation rules	Duty cycle	up to 100%	
	Access protocol		
	Trans. capacity		
Direction / Separation			
Authorisation regime	Exempt from individual licensing		
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	Decision 2014/641/EU EN 300 422 ERC REC 70-03 Annex 10j2		Block Edge Masks are defined in Decision 2014/641/EU
Remarks			
Notification number	2007/351/L		
Equipment class	Class 2		



Normative in accordance to the **TCAM RIG II** template



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Interface Regulations

SRD

Radio microphones including Assistive Listening Devices, Wireless Audio and Multimedia Streaming Systems

Parameter	Description		Comment
Frequency band	1800 - 1804.8 MHz		Harmonised radio spectrum for use by PMSE (2014/641/EU)
Radio Service	Mobile		
Application	Short Range Devices Radio microphones and ALD Radio microphones		
Channel / modulation	Channel spacing	No spacing	
	Designation of emission		
	Modulation / Occupied bandwidth		
	Reference frequency		
Transmit power / Power density	Output power		
	Antenna Gain		50 mW e.i.r.p. restricted to body worn microphones.
	Radiated power	20 mW e.i.r.p. 50 mW e.i.r.p.	
Channel access and occupation rules	Duty cycle	up to 100%	
	Access protocol		
	Trans. capacity		
Direction / Separation			
Authorisation regime	Exempt from individual licensing		
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	Decision 2014/641/EU EN 300 422 ERC REC 70-03 Annex 10j3		Block Edge Masks are defined in Decision 2014/641/EU
Remarks			
Notification number	2014/450/L		
Equipment class	Class 2		



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Interface Regulations

SRD

Radio microphones including Assistive Listening Devices, Wireless Audio and Multimedia Streaming Systems

Parameter	Description		Comment
Frequency band	169.4 - 169.475 MHz		Harmonised radio spectrum for use by short-range devices (2013/752/EU)
Radio Service	Mobile		
Application	Short Range Devices Radio microphones and ALD Public hearing aids		
Channel / modulation	Channel spacing	Max 50 kHz	
	Designation of emission		
	Modulation / Occupied bandwidth		
	Reference frequency		
Transmit power / Power density	Output power		
	Antenna Gain		
	Radiated power	500 mW e.r.p.	
Channel access and occupation rules	Duty cycle	up to 100%	
	Access protocol		
	Trans. capacity		
Direction / Separation			
Authorisation regime	Exempt from individual licensing		
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	Decision 2013/752/EU ECC/DEC (05)02; ERC REC 70-03 Annex 10c2 EN 300 422		Band no. 37a
Remarks			
Notification number	2007/351/L		
Equipment class	Class 1		Refer to Sub-class 68 (2000/299/EC) (10mW erp)



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Interface Regulations

SRD

Radio microphones including Assistive Listening Devices, Wireless Audio and Multimedia Streaming Systems

Parameter	Description		Comment
Frequency band	169.4875 - 169.5875 MHz		Harmonised radio spectrum for use by short-range devices (2013/752/EU)
Radio Service	Mobile		
Application	Short Range Devices Radio microphones and ALD Public hearing aids		
Channel / modulation	Channel spacing	Max 50 kHz	
	Designation of emission		
	Modulation / Occupied bandwidth		
	Reference frequency		
Transmit power / Power density	Output power		
	Antenna Gain		
	Radiated power	500 mW e.r.p.	
Channel access and occupation rules	Duty cycle	up to 100%	
	Access protocol		
	Trans. capacity		
Direction / Separation			
Authorisation regime	Exempt from individual licensing		
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	Decision 2013/752/EU ECC/DEC (05)02; ERC REC 70-03 Annex 10c4 EN 300 422		Band no. 39a
Remarks			
Notification number	2007/351/L		
Equipment class	Class 1		Refer to Sub-class 64 (2000/299/EC) (10mW erp)



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Interface Regulations

SRD

Radio microphones including Assistive Listening Devices, Wireless Audio and Multimedia Streaming Systems

Parameter	Description		Comment
Frequency band	169.6 - 174 MHz		
Radio Service	Mobile		
Application	Short Range Devices Radio microphones and ALD Aids for hearing impaired		
Channel / modulation	Channel spacing	Max 50 kHz	
	Designation of emission		
	Modulation / Occupied bandwidth		
	Reference frequency		
Transmit power / Power density	Output power		
	Antenna Gain		
	Radiated power	10 mW e.r.p.	
Channel access and occupation rules	Duty cycle	up to 100%	
	Access protocol		
	Trans. capacity		
Direction / Separation			
Authorisation regime	Exempt from individual licensing		
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	EN 300 422 ERC REC 70-03 Annex 10b		
Remarks			
Notification number	2009/0375/L		
Equipment class	Class 2		



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Interface Regulations

SRD

Radio microphones including Assistive Listening Devices, Wireless Audio and Multimedia Streaming Systems

Parameter	Description		Comment
Frequency band	1492 - 1518 MHz		
Radio Service	Mobile		THE FREQUENCY BAND OF 1492-1518 MHz IS SUBJECT TO BE HARMONISED FOR IMT SERVICES IN FUTURE AND FOR THIS REASON NO MORE AVAILABLE FOR RADIO MICROPHONES.
Application	Short Range Devices Radio microphones and ALD Radio microphones		
Channel / modulation	Channel spacing	No spacing	
	Designation of emission		
	Modulation / Occupied bandwidth		
	Reference frequency		
Transmit power / Power density	Output power		
	Antenna Gain		
	Radiated power	50 mW e.i.r.p.	
Channel access and occupation rules	Duty cycle	up to 100%	
	Access protocol		
	Trans. capacity		
Direction / Separation			
Authorisation regime	Exempt from individual licensing		
Add. essential requirements			
Freq. planning assumption	Restricted to indoor use		
Planned changes			
Reference	EN 300 422 ERC REC 70-03 Annex 10i		
Remarks			
Notification number	2013/632/L		
Equipment class	Class 2		



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Interface Regulations

SRD

Radio microphones including Assistive Listening Devices, Wireless Audio and Multimedia Streaming Systems

Parameter	Description		Comment
Frequency band	87.5 - 108 MHz		Harmonised radio spectrum for use by short-range devices (2013/752/EU)
Radio Service	Mobile ----- Land Mobile -----		
Application	Short Range Devices Radio microphones and ALD -----		Low power FM transmitters
Channel / modulation	Channel spacing	max. 200 kHz	
	Designation of emission		
	Modulation / Occupied bandwidth		
	Reference frequency		
Transmit power / Power density	Output power		
	Antenna Gain		
	Radiated power	50 nW e.r.p.	
Channel access and occupation rules	Duty cycle	up to 100%	
	Access protocol		
	Trans. capacity		
Direction / Separation			
Authorisation regime	Exempt from individual licensing		
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	Decision 2013/752/EU EN 301 357 ERC REC 70-03 Annex 10a1		Band no.36
Remarks			
Notification number	2009/0375/L		
Equipment class	Class 1		Refer to Sub-class 86 (2000/299/EC)



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Interface Regulations

SRD

Radio frequency identification applications

Parameter	Description		Comment
Frequency band	2446 - 2454 MHz		Harmonised radio spectrum for use by short-range devices (2013/752/EU)
Radio Service	Mobile		
Application	Short Range Devices RFID		
Channel / modulation	Channel spacing	No spacing	
	Designation of emission		
	Modulation / Occupied bandwidth		
	Reference frequency		
Transmit power / Power density	Output power		
	Antenna Gain		
	Radiated power	$\leq 500\text{mW e.i.r.p.}$	
Channel access and occupation rules	Duty cycle	No requirement	
	Access protocol		
	Trans. capacity		
Direction / Separation			
Authorisation regime	Exempt from individual licensing		
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	Decision 2013/752/EU EN 300 440 ERC REC 70-03 Annex 11c1		Band no. 58
Remarks			
Notification number	2010/378/L		
Equipment class	Class 1		Refer to Subclass 100(Commission Decision 2000/299/CE)

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Interface Regulations

SRD

Radio frequency identification applications

Parameter	Description		Comment
Frequency band	2446 - 2454 MHz		
Radio Service	Mobile		
Application	Short Range Devices RFID		
Channel / modulation	Channel spacing	No spacing	
	Designation of emission		
	Modulation / Occupied bandwidth		
	Reference frequency		
Transmit power / Power density	Output power		
	Antenna Gain		
	Radiated power	> 500mW - 4W e.i.r.p	
Channel access and occupation rules	Duty cycle	<= 15%	Power levels above 500 mW are restricted to use inside the boundaries of a building and the duty cycle of all transmissions shall in this case be <= 15% in any 200ms period (30ms on /170ms off)
	Access protocol		
	Trans. capacity		
Direction / Separation			
Authorisation regime	Exempt from individual licensing		
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	EN 300 440 ERC REC 70-03 Annex 11c2		
Remarks			
Notification number	2010/378/L		
Equipment class	Class 2		

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Interface Regulations

SRD

Radio frequency identification applications

Parameter	Description		Comment
Frequency band	865 - 865.6 MHz		Harmonisation of the radio spectrum for radio frequency identification (RFID) devices operating in the ultra high frequency (2006/804/EC)
Radio Service	Mobile		
Application	Short Range Devices RFID		
Channel / modulation	Channel spacing	200 kHz	Center frequencies : $864.9 + (0.2 * \text{channel number})$ Channel numbers : 1-3
	Designation of emission		
	Modulation / Occupied bandwidth		
	Reference frequency		
Transmit power / Power density	Output power	100 mW e.r.p.	
	Antenna Gain		
	Radiated power		
Channel access and occupation rules	Duty cycle		Frequency hopping or other spread spectrum techniques shall not be used.
	Access protocol		
	Trans. capacity		
Direction / Separation			
Authorisation regime	Exempt from individual licensing		
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	Decision 2006/804/EC EN 302 208 ERC REC 70-03 Annex 11a1		
Remarks			
Notification number	2007/351/L		
Equipment class	Class 1		Refer to Sub-class 56 (2000/299/EC)

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Interface Regulations

SRD

Radio frequency identification applications

Parameter	Description		Comment
Frequency band	865.6 - 867.6 MHz		Harmonisation of the radio spectrum for radio frequency identification (RFID) devices operating in the ultra high frequency (2006/804/EC)
Radio Service	Mobile		
Application	Short Range Devices RFID		
Channel / modulation	Channel spacing	200 kHz	Center frequencies : $864.9 + (0.2 * \text{channel number})$ Channel numbers : 4-13
	Designation of emission		
	Modulation / Occupied bandwidth		
	Reference frequency		
Transmit power / Power density	Output power	2 W e.r.p.	
	Antenna Gain		
	Radiated power		
Channel access and occupation rules	Duty cycle		Frequency hopping or other spread spectrum techniques shall not be used.
	Access protocol		
	Trans. capacity		
Direction / Separation			
Authorisation regime	Exempt from individual licensing		
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	Decision 2006/804/EC EN 302 208 ERC REC 70-03 Annex 11a2		
Remarks			
Notification number	2007/351/L		
Equipment class	Class 1		Refer to Sub-class 56 (2000/299/EC)

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Interface Regulations

SRD

Radio frequency identification applications

Parameter	Description		Comment
Frequency band	867.6 - 868 MHz		Harmonisation of the radio spectrum for radio frequency identification (RFID) devices operating in the ultra high frequency (2006/804/EC)
Radio Service	Mobile		
Application	Short Range Devices RFID		
Channel / modulation	Channel spacing	200 kHz	Center frequencies : $864.9 + (0.2 * \text{channel number})$ Channel numbers : 4-15
	Designation of emission		
	Modulation / Occupied bandwidth		
	Reference frequency		
Transmit power / Power density	Output power	500 mW e.r.p.	
	Antenna Gain		
	Radiated power		
Channel access and occupation rules	Duty cycle		Frequency hopping or other spread spectrum techniques shall not be used.
	Access protocol		
	Trans. capacity		
Direction / Separation			
Authorisation regime	Exempt from individual licensing		
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	Decision 2006/804/EC EN 302 208 ERC REC 70-03 Annex 11a3		
Remarks			
Notification number	2007/351/L		
Equipment class	Class 1		Refer to Sub-class 56 (2000/299/EC)

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Interface Regulations

SRD

Radio frequency identification applications

Parameter	Description		Comment
Frequency band	915 - 921 MHz		
Radio Service	Mobile		
Application	Short Range Devices RFID		The frequency band is also used for non-specific SRDs and radio microphones. Interrogators only allowed for following channels: 916.3 MHz, 917.5 MHz, 918.7 MHz and 919.9 MHz
Channel / modulation	Channel spacing	<= 400 kHz	
	Designation of emission		
	Modulation / Occupied bandwidth		
	Reference frequency		
Transmit power / Power density	Output power	4 W e.r.p.	Operation only when necessary to perform the intended operation, i.e. when RFID tags are expected to be present.
	Antenna Gain		
	Radiated power		
Channel access and occupation rules	Duty cycle		For ER-GSM protection (918-921 MHz, where applicable), DAA is required.
	Access protocol		
	Trans. capacity		
Direction / Separation			
Authorisation regime	Exempt from individual licensing		
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	EN 302 208 ERC REC 70-03 Annex 11b		
Remarks			
Notification number	2014/450/L		
Equipment class	Class 2		

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Interface Regulations

SRD

Radio frequency identification applications

Parameter	Description		Comment
Frequency band	865 - 868 MHz		
Radio Service	<i>Mobile</i> <i>Land Mobile</i>		
Application	<i>Short Range Devices</i> <i>RFID</i>		
Channel / modulation	Channel spacing	200 kHz	Four authorised channels: 865.7, 866.3, 866.9 and 867.5 MHz
	Designation of emission		
	Modulation / Occupied bandwidth		
	Reference frequency		
Transmit power / Power density	Output power	2W e.r.p.	
	Antenna Gain		
	Radiated power		
Channel access and occupation rules	Duty cycle		
	Access protocol		
	Trans. capacity		
Direction / Separation			
Authorisation regime	Exempt from individual licensing		
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	EN 302 208 ERC REC 70-03 Annex 11a		
Remarks			
Notification number			
Equipment class	Class 2		

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Interface Regulations

SRD

Wireless applications in Healthcare

Parameter	Description		Comment
Frequency band	402 - 405 MHz		Harmonised radio spectrum for use by short-range devices (2013/752/EU)
Radio Service	Mobile		
Application	Short Range Devices Active medical implants ULP-AMI		
Channel / modulation	Channel spacing	25 kHz	Individual transmitters may combine adjacent channels for increased bandwidth up to 300 kHz.
	Designation of emission		
	Modulation / Occupied bandwidth		
	Reference frequency		
Transmit power / Power density	Output power		Other techniques to access spectrum or mitigate interference, including bandwidths greater than 300 kHz, can be used provided they result at least in an equivalent performance to the techniques described in harmonised standards adopted under Directive 1999/5/EC to ensure compatible operation with the other users and in particular with meteorological radiosondes.
	Antenna Gain		
	Radiated power	25 uW e.r.p.	
Channel access and occupation rules	Duty cycle	No restriction	
	Access protocol		
	Trans. capacity		
Direction / Separation			
Authorisation regime	Exempt from individual licensing		
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	Decision 2013/752/EU EN 301 839		Band no.42 Council Directive 90/385/EEC
Remarks			
Notification number	2009/0375/L		
Equipment class	Class 1		Refer to Sub-class 47 (2000/299/EC)

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Interface Regulations

SRD

Wireless applications in Healthcare

Parameter	Description		Comment
Frequency band	401 - 402 MHz		Harmonised radio spectrum for use by short-range devices (2013/752/EU)
Radio Service	Mobile		
Application	Short Range Devices Active medical implants ULP-AMI		
Channel / modulation	Channel spacing	25 kHz	Individual transmitters may combine adjacent 25 kHz channels for increased bandwidth up to 100 kHz.
	Designation of emission		
	Modulation / Occupied bandwidth		Due to the limited available spectrum of 1 MHz, a maximum bandwidth of 100 kHz is proposed for these bands to ensure that several users could access the band concurrently.
	Reference frequency		
Transmit power / Power density	Output power		
	Antenna Gain		
	Radiated power	25 uW e.r.p.	
Channel access and occupation rules	Duty cycle	No restriction for LBT, otherwise $\leq 0.1\%$	Techniques to access spectrum and mitigate interference that provide at least equivalent performance to the techniques described in harmonised standards adopted under Directive 1999/5/EC must be used. Alternatively a duty cycle limit of 0.1% may also be used.
	Access protocol		
	Trans. capacity		
Direction / Separation			
Authorisation regime	Exempt from individual licensing		
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	Decision 2013/752/EU EN 302 537		Band no.41
Remarks			
Notification number	2010/708/L		
Equipment class	Class 1		Refer to Sub-class 83 (2000/299/EC)

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Interface Regulations

SRD

Wireless applications in Healthcare

Parameter	Description		Comment
Frequency band	405 - 406 MHz		Harmonised radio spectrum for use by short-range devices (2013/752/EU)
Radio Service	Mobile		
Application	Short Range Devices Active medical implants ULP-AMI		
Channel / modulation	Channel spacing	25 kHz	Individual transmitters may combine adjacent 25 kHz channels for increased bandwidth up to 100 kHz.
	Designation of emission		
	Modulation / Occupied bandwidth		Due to the limited available spectrum of 1 MHz, a maximum bandwidth of 100 kHz is proposed for these bands to ensure that several users could access the band concurrently.
	Reference frequency		
Transmit power / Power density	Output power		
	Antenna Gain		
	Radiated power	25 uW e.r.p.	
Channel access and occupation rules	Duty cycle	No restriction for LBT, otherwise $\leq 0.1\%$	Techniques to access spectrum and mitigate interference that provide at least equivalent performance to the techniques described in harmonised standards adopted under Directive 1999/5/EC must be used. Alternatively a duty cycle limit of 0.1% may also be used.
	Access protocol		
	Trans. capacity		
Direction / Separation			
Authorisation regime	Exempt from individual licensing		
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	Decision 2013/752/EU EN 302 537		Band no.43
Remarks			
Notification number	2010/708/L		
Equipment class	Class 1		Refer to Sub-class 84 (2000/299/EC)

Normative in accordance to the **TCAM RIG II** templateInformative in accordance to the **TCAM RIG II** template

Interface Regulations

SRD

Wireless applications in Healthcare

Parameter	Description		Comment
Frequency band	0.009 - 0.315 MHz		Harmonised radio spectrum for use by short-range devices (2013/752/EU)
Radio Service	Mobile		
Application	Short Range Devices Active medical implants ULP-AMI		This application is for ultra low power active medical implants systems using inductive loop techniques for telemetry purposes.
Channel / modulation	Channel spacing	No spacing	
	Designation of emission		
	Modulation / Occupied bandwidth		
	Reference frequency		
Transmit power / Power density	Output power		
	Antenna Gain		
	Radiated power	30 dBuA/m @ 10m	
Channel access and occupation rules	Duty cycle	<= 10 %	
	Access protocol		
	Trans. capacity		
Direction / Separation			
Authorisation regime	Exempt from individual licensing		
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	Decision 2013/752/EU EN 302 195 ERC REC 70-03 Annex 12a		Band no.2
Remarks			
Notification number	2009/0375/L		
Equipment class	Class 1		Refer to Sub-class 81 (2000/299/EC)



Normative in accordance to the **TCAM RIG II** template



Informative in accordance to the **TCAM RIG II** template

Interface Regulations

SRD

Wireless applications in Healthcare

Parameter	Description		Comment
Frequency band	0.315 - 0.6 MHz		Harmonised radio spectrum for use by short-range devices (2013/752/EU)
Radio Service	Mobile		
Application	Short Range Devices Active medical implants ULP-AID		
Channel / modulation	Channel spacing	No spacing	
	Designation of emission		
	Modulation / Occupied bandwidth		
	Reference frequency		
Transmit power / Power density	Output power		
	Antenna Gain		
	Radiated power	-5 dBuA/m @ 10m	
Channel access and occupation rules	Duty cycle	10 %	
	Access protocol		
	Trans. capacity		
Direction / Separation			
Authorisation regime	Exempt from individual licensing		
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	Decision 2013/752/EU EN 302 536 ERC REC 70-03 Annex 12b		Band no.16
Remarks			
Notification number	2010/708/L		
Equipment class	Class 1		Refer to Sub-class 85 (2000/299/EC)

Normative in accordance to the **TCAM RIG II** templateInformative in accordance to the **TCAM RIG II** template

Interface Regulations

SRD

Wireless applications in Healthcare

Parameter	Description		Comment
Frequency band	30 - 37.5 MHz		Harmonised radio spectrum for use by short-range devices (2013/752/EU)
Radio Service	Mobile		
Application	Short Range Devices Active medical implants ULP-MMI		
Channel / modulation	Channel spacing	No spacing	
	Designation of emission		
	Modulation / Occupied bandwidth		
	Reference frequency		
Transmit power / Power density	Output power		
	Antenna Gain		
	Radiated power	1 mW e.r.p.	
Channel access and occupation rules	Duty cycle	<= 10 %	
	Access protocol		
	Trans. capacity		
Direction / Separation			
Authorisation regime	Exempt from individual licensing		
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	Decision 2013/752/EU EN 302 510 ERC REC 70-03 Annex 12d		Band no.34
Remarks			
Notification number	2010/708/L		
Equipment class	Class 1		Refer to Sub-class 82 (2000/299/EC)



Normative in accordance to the **TCAM RIG II** template



Informative in accordance to the **TCAM RIG II** template

Interface Regulations

SRD

Wireless applications in Healthcare

Parameter	Description		Comment
Frequency band	12.5 - 20 MHz		Harmonised radio spectrum for use by short-range devices (2013/752/EU)
Radio Service	Mobile		
Application	Short Range Devices Active medical implants ULP-AID		
Channel / modulation	Channel spacing	No spacing	
	Designation of emission		
	Modulation / Occupied bandwidth		
	Reference frequency		
Transmit power / Power density	Output power		
	Antenna Gain		
	Radiated power	-7 dBuA/m @ 10m	
Channel access and occupation rules	Duty cycle	< 10 %	
	Access protocol		
	Trans. capacity		
Direction / Separation			
Authorisation regime	Exempt from individual licensing		
Add. essential requirements			
Freq. planning assumption	Limited to indoor only applications.		
Planned changes			
Reference	2013/752/EU EN 300 330 ERC REC 70-03 Annex 12c		Band no.26
Remarks			
Notification number	2010/708/L		
Equipment class	Class 2		Refer to Sub-class H04 (2000/299/EC)

Normative in accordance to the **TCAM RIG II** templateInformative in accordance to the **TCAM RIG II** template

Interface Regulations

SRD

Wireless applications in Healthcare

Parameter	Description		Comment
Frequency band	2483.5 - 2500 MHz		Harmonised radio spectrum for use by short-range devices (2013/752/EU)
Radio Service	Mobile		
Application	Short Range Devices Active medical implants ULP-AMI		For Low Power Active Medical Implants and associated peripherals, covered by the applicable harmonised standard.
Channel / modulation	Channel spacing	1 MHz	Individual transmitters may combine adjacent channels on a dynamic basis for increased bandwidth higher than 1 MHz.
	Designation of emission		
	Modulation / Occupied bandwidth		
	Reference frequency		
Transmit power / Power density	Output power		
	Antenna Gain		
	Radiated power	10 dBm e.i.r.p.	
Channel access and occupation rules	Duty cycle	LBT+AFA and < 10%	
	Access protocol		
	Trans. capacity		
Direction / Separation			
Authorisation regime	Exempt from individual licensing		
Add. essential requirements			
Freq. planning assumption	Peripheral units are for indoor use only.		
Planned changes			
Reference	Decision 2013/752/EU EN 301 559 ERC REC 70-03 Annex 12e		Band no. 59
Remarks			
Notification number	2011/268/L		
Equipment class	Class 1 Class 2		Refer to Sub-class 117 (2000/299/EC) (no periph. master) Refer to Sub-class H09 (2000/299/EC) (periph. master)

Normative in accordance to the **TCAM RIG II** templateInformative in accordance to the **TCAM RIG II** template

Interface Regulations

Broadcasting Satellite Service

Broadcasting-satellite receivers

Parameter	Description		Comment
Frequency band	11700 - 12500 MHz		
Radio Service	Broadcasting-Satellite		
Application	Broadcasting Broadcasting (satellite)		
Channel / modulation	Channel spacing	to be defined by the satellite operator	
	Designation of emission	to be defined by the satellite operator	
	Modulation / Occupied bandwidth	to be defined by the satellite operator	
	Reference frequency		
Transmit power / Power density	Output power		
	Antenna Gain		
	Radiated power	Not defined	
Channel access and occupation rules	Duty cycle		
	Access protocol		
	Trans. capacity	to be defined by the satellite operator	
Direction / Separation	to be defined by the satellite operator		
Authorisation regime	Exempt from individual licensing		
Add. essential requirements			
Freq. planning assumption	RR App 30; ERC DEC (00)08		
Planned changes			
Reference			
Remarks			
Notification number	2007/351/L		
Equipment class	Class 2		



Normative in accordance to the **TCAM RIG II** template



Informative in accordance to the **TCAM RIG II** template

Interface Regulations

Fixed Satellite Service

Earth Stations on-board Vessels

Parameter	Description		Comment
Frequency band	3700 - 4200 MHz		
Radio Service	Fixed-Satellite (space-to-Earth)		
Application	Satellite systems (civil) FSS Earth stations ESV		ESVs are not applicable on the Luxembourg territory as Luxembourg has no sea coast, nor is there any large inland lake on the Luxembourg territory.
Channel / modulation	Channel spacing	to be defined by the satellite network operator	
	Designation of emission		
	Modulation / Occupied bandwidth	to be defined by the satellite network operator	
	Reference frequency		
Transmit power / Power density	Output power		ESVs on bord ships that are registered in Luxembourg should comply to the requirements given from the Administration of the respective coastal State.
	Antenna Gain		
	Radiated power	Not defined	
Channel access and occupation rules	Duty cycle		
	Access protocol		
	Trans. capacity	to be defined by the satellite network operator	
Direction / Separation	to be defined by the satellite network operator		
Authorisation regime			
Add. essential requirements			
Freq. planning assumption			ESVs on bord ships that are registered in Luxembourg should comply to the requirements given from the Administration of the respective coastal State.
Planned changes			
Reference	EN 301 443; EN 301 447 CEPT ECC DEC (05)09		
Remarks			
Notification number	2007/351/L		
Equipment class	Class 2		

Normative in accordance to the **TCAM RIG II** templateInformative in accordance to the **TCAM RIG II** template

Interface Regulations

Fixed Satellite Service

Earth Stations on-board Vessels

Parameter	Description		Comment
Frequency band	5925 - 6425 MHz		
Radio Service	Fixed-Satellite (Earth-to-space)		
Application	Satellite systems (civil) FSS Earth stations ESV		ESVs are not applicable on the Luxembourg territory as Luxembourg has no sea coast, nor is there any large inland lake on the Luxembourg territory.
Channel / modulation	Channel spacing	to be defined by the satellite network operator	
	Designation of emission		
	Modulation / Occupied bandwidth	to be defined by the satellite network operator	
	Reference frequency		
Transmit power / Power density	Output power		ESVs on bord ships that are registered in Luxembourg should comply to the requirements given from the Administration of the respective coastal State.
	Antenna Gain		
	Radiated power	Not defined	
Channel access and occupation rules	Duty cycle		
	Access protocol		
	Trans. capacity	to be defined by the satellite network operator	
Direction / Separation	to be defined by the satellite network operator		
Authorisation regime			
Add. essential requirements			
Freq. planning assumption			ESVs on bord ships that are registered in Luxembourg should comply to the requirements given from the Administration of the respective coastal State.
Planned changes			
Reference	EN 301 443, EN 301 447 ECC DEC (05)09		
Remarks			
Notification number	2007/351/L		
Equipment class	Class 2		

Normative in accordance to the **TCAM RIG II** templateInformative in accordance to the **TCAM RIG II** template

Interface Regulations

Fixed Satellite Service

Earth Stations on-board Vessels

Parameter	Description		Comment
Frequency band	10700 - 11700 MHz		
Radio Service	Fixed-Satellite (space-to-Earth)		
Application	Satellite systems (civil) FSS Earth stations ESV		ESVs are not applicable on the Luxembourg territory as Luxembourg has no sea coast, nor is there any large inland lake on the Luxembourg territory.
Channel / modulation	Channel spacing	to be defined by the satellite operator	
	Designation of emission	to be defined by the satellite operator	
	Modulation / Occupied bandwidth	to be defined by the satellite operator	
	Reference frequency		
Transmit power / Power density	Output power		
	Antenna Gain		
	Radiated power	Refer to subclass 12	
Channel access and occupation rules	Duty cycle		
	Access protocol		
	Trans. capacity	to be defined by the satellite operator	
Direction / Separation	to be defined by the satellite operator		
Authorisation regime	Exempt from individual licensing		
Add. essential requirements			
Freq. planning assumption	RR App 30B		in the range of 10.7 - 10.95 GHz and 11.2 - 11.45 GHz
Planned changes			
Reference	EN 302 340 CEPT ECC DEC (05)10		
Remarks			
Notification number	2013/216/L		
Equipment class	Class 1		Refer to sub-class 12 (2000/299/EC)

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Interface Regulations

Fixed Satellite Service

Earth Stations on-board Vessels

Parameter	Description		Comment
Frequency band	12500 - 12750 MHz		
Radio Service	Fixed-Satellite (space-to-Earth)		
Application	Satellite systems (civil) FSS Earth stations ESV		ESVs are not applicable on the Luxembourg territory as Luxembourg has no sea coast, nor is there any large inland lake on the Luxembourg territory.
Channel / modulation	Channel spacing	to be defined by the satellite operator	
	Designation of emission	to be defined by the satellite operator	
	Modulation / Occupied bandwidth	to be defined by the satellite operator	
	Reference frequency		
Transmit power / Power density	Output power		
	Antenna Gain		
	Radiated power	Refer to subclass 12	
Channel access and occupation rules	Duty cycle		
	Access protocol		
	Trans. capacity	to be defined by the satellite operator	
Direction / Separation	to be defined by the satellite operator		
Authorisation regime	Exempt from individual licensing		
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	EN 302 340 CEPT ECC DEC (05)10		
Remarks			
Notification number	2013/216/L		
Equipment class	Class 1		Refer to sub-class 12 (2000/299/EC)

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Interface Regulations

Fixed Satellite Service

Earth Stations on-board Vessels

Parameter	Description		Comment
Frequency band	14000 - 14250 MHz		
Radio Service	Fixed-Satellite (Earth-to-space)		
Application	Satellite systems (civil) FSS Earth stations ESV		ESVs are not applicable on the Luxembourg territory as Luxembourg has no sea coast, nor is there any large inland lake on the Luxembourg territory.
Channel / modulation	Channel spacing	to be defined by the satellite operator	
	Designation of emission	to be defined by the satellite operator	
	Modulation / Occupied bandwidth	to be defined by the satellite operator	
	Reference frequency		
Transmit power / Power density	Output power		
	Antenna Gain		
	Radiated power	Refer to subclass 12	
Channel access and occupation rules	Duty cycle		
	Access protocol		
	Trans. capacity	to be defined by the satellite operator	
Direction / Separation	to be defined by the satellite operator		
Authorisation regime	Exempt from individual licensing		
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	EN 302 340 CEPT ECC DEC (05)10		
Remarks			
Notification number	2013/216/L		
Equipment class	Class 1		Refer to sub-class 12 (2000/299/EC)

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Interface Regulations

Fixed Satellite Service

Earth Stations on-board Vessels

Parameter	Description		Comment
Frequency band	14250 - 14500 MHz		
Radio Service	Fixed-Satellite (Earth-to-space)		
Application	Satellite systems (civil) FSS Earth stations ESV		ESVs are not applicable on the Luxembourg territory as Luxembourg has no sea coast, nor is there any large inland lake on the Luxembourg territory.
Channel / modulation	Channel spacing	to be defined by the satellite operator	
	Designation of emission	to be defined by the satellite operator	
	Modulation / Occupied bandwidth	to be defined by the satellite operator	
	Reference frequency		
Transmit power / Power density	Output power		
	Antenna Gain		
	Radiated power	Not defined	
Channel access and occupation rules	Duty cycle		
	Access protocol		
	Trans. capacity	to be defined by the satellite operator	
Direction / Separation	to be defined by the satellite operator		
Authorisation regime	Exempt from individual licensing		
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	EN 302 340 CEPT ECC DEC (05)10		
Remarks			
Notification number	2013/216/L		
Equipment class	Class 2		

Normative in accordance to the **TCAM RIG II** templateInformative in accordance to the **TCAM RIG II** template

Interface Regulations

Fixed Satellite Service

FSS Earth stations

Parameter	Description		Comment
Frequency band	3400 - 3600 MHz		
Radio Service	Fixed-Satellite (space-to-Earth)		
Application	Satellite systems (civil) FSS Earth stations		
Channel / modulation	Channel spacing	defined during licencing procedure	
	Designation of emission	defined during licencing procedure	
	Modulation / Occupied bandwidth	defined during licencing procedure	
	Reference frequency	defined during licencing procedure	
Transmit power / Power density	Output power	defined during licencing procedure	
	Antenna Gain	defined during licencing procedure	
	Radiated power	defined during licencing procedure	
Channel access and occupation rules	Duty cycle	defined during licencing procedure	
	Access protocol	defined during licencing procedure	
	Trans. capacity	defined during licencing procedure	
Direction / Separation	defined during licencing procedure		
Authorisation regime	Individual licensing		
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	EN 301 443		
Remarks			
Notification number	2010/378/L		
Equipment class	Class 2		



Normative in accordance to the **TCAM RIG II** template



Informative in accordance to the **TCAM RIG II** template

Interface Regulations

Fixed Satellite Service

FSS Earth stations

Parameter	Description		Comment
Frequency band	3600 - 4200 MHz		
Radio Service	Fixed-Satellite (space-to-Earth)		
Application	Satellite systems (civil) FSS Earth stations		
Channel / modulation	Channel spacing	to be defined be the satellite operator	
	Designation of emission	to be defined be the satellite operator	
	Modulation / Occupied bandwidth	to be defined be the satellite operator	
	Reference frequency		
Transmit power / Power density	Output power		defined during licensing procedure
	Antenna Gain		
	Radiated power	Not defined	
Channel access and occupation rules	Duty cycle		
	Access protocol		
	Trans. capacity	to be defined be the satellite operator	
Direction / Separation	to be defined be the satellite operator		
Authorisation regime	Individual licensing		
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	EN 301 443		
Remarks			
Notification number	2007/351/L		
Equipment class	Class 2		

Normative in accordance to the **TCAM RIG II** templateInformative in accordance to the **TCAM RIG II** template

Interface Regulations

Fixed Satellite Service

FSS Earth stations

Parameter	Description		Comment
Frequency band	5725 - 6700 MHz		
Radio Service	Fixed-Satellite (Earth-to-space)		
Application	Satellite systems (civil) FSS Earth stations		
Channel / modulation	Channel spacing	to be defined be the satellite operator	
	Designation of emission	to be defined be the satellite operator	
	Modulation / Occupied bandwidth	to be defined be the satellite operator	
	Reference frequency		
Transmit power / Power density	Output power		defined during licensing procedure
	Antenna Gain		
	Radiated power	Not defined	
Channel access and occupation rules	Duty cycle		
	Access protocol		
	Trans. capacity	to be defined be the satellite operator	
Direction / Separation	to be defined be the satellite operator		
Authorisation regime	Individual licensing		
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	EN 301 443		in the range of 5850 - 6700 MHz
Remarks			
Notification number	2007/351/L		
Equipment class	Class 2		



Normative in accordance to the **TCAM RIG II** template



Informative in accordance to the **TCAM RIG II** template

Interface Regulations

Fixed Satellite Service

FSS Earth stations

Parameter	Description		Comment
Frequency band	6700 - 7075 MHz		
Radio Service	Fixed-Satellite (space-to-Earth) (Earth-to-space)		
Application	Satellite systems (civil) FSS Earth stations		
Channel / modulation	Channel spacing	to be defined by the satellite operator	
	Designation of emission	to be defined by the satellite operator	
	Modulation / Occupied bandwidth	to be defined by the satellite operator	
	Reference frequency		
Transmit power / Power density	Output power		defined during licensing procedure
	Antenna Gain		
	Radiated power	Not defined	
Channel access and occupation rules	Duty cycle		
	Access protocol		
	Trans. capacity	to be defined by the satellite operator	
Direction / Separation	to be defined by the satellite operator		
Authorisation regime	Individual licensing		
Add. essential requirements			
Freq. planning assumption	RR App 30B		in the range of 6725 - 7075 MHz
Planned changes			
Reference	EN 301 443		
Remarks			
Notification number	2007/351/L		
Equipment class	Class 2		

Normative in accordance to the **TCAM RIG II** templateInformative in accordance to the **TCAM RIG II** template

Interface Regulations

Fixed Satellite Service

FSS Earth stations

Parameter	Description		Comment
Frequency band	7900 - 8400 MHz		
Radio Service	Fixed-Satellite (Earth-to-space)		
Application	Satellite systems (civil) FSS Earth stations		
Channel / modulation	Channel spacing	to be defined by the satellite operator	
	Designation of emission	to be defined by the satellite operator	
	Modulation / Occupied bandwidth	to be defined by the satellite operator	
	Reference frequency		
Transmit power / Power density	Output power		defined during licensing procedure
	Antenna Gain		
	Radiated power	Not defined	
Channel access and occupation rules	Duty cycle		
	Access protocol		
	Trans. capacity	to be defined by the satellite operator	
Direction / Separation	to be defined by the satellite operator		
Authorisation regime	Individual licensing		
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference			
Remarks			
Notification number	2007/351/L		
Equipment class	Class 2		

Normative in accordance to the **TCAM RIG II** templateInformative in accordance to the **TCAM RIG II** template

Interface Regulations

Fixed Satellite Service

FSS Earth stations

Parameter	Description		Comment
Frequency band	10700 - 11700 MHz		
Radio Service	Fixed-Satellite (space-to-Earth)		
Application	Satellite systems (civil) FSS Earth stations		
Channel / modulation	Channel spacing	to be defined by the satellite operator	
	Designation of emission	to be defined by the satellite operator	
	Modulation / Occupied bandwidth	to be defined by the satellite operator	
	Reference frequency		
Transmit power / Power density	Output power		
	Antenna Gain		
	Radiated power	Not defined	
Channel access and occupation rules	Duty cycle		
	Access protocol		
	Trans. capacity	to be defined by the satellite operator	
Direction / Separation	to be defined by the satellite operator		
Authorisation regime	Exempt from individual licensing		
Add. essential requirements			
Freq. planning assumption	RR app 30B; ERC DEC (00)08		RR App 30B: In the range of 10.7 - 10.95 GHz and 11.20 - 11.45 GHz
Planned changes			
Reference			
Remarks			
Notification number	2007/351/L		
Equipment class	Class 2		

Normative in accordance to the **TCAM RIG II** templateInformative in accordance to the **TCAM RIG II** template

Interface Regulations

Fixed Satellite Service

FSS Earth stations

Parameter	Description		Comment
Frequency band	12500 - 12750 MHz		
Radio Service	Fixed-Satellite (space-to-Earth)		
Application	Satellite systems (civil) FSS Earth stations		
Channel / modulation	Channel spacing	to be defined by the satellite operator	
	Designation of emission	to be defined by the satellite operator	
	Modulation / Occupied bandwidth	to be defined by the satellite operator	
	Reference frequency		
Transmit power / Power density	Output power		
	Antenna Gain		
	Radiated power	Not defined	
Channel access and occupation rules	Duty cycle		
	Access protocol		
	Trans. capacity	to be defined by the satellite operator	
Direction / Separation	to be defined by the satellite operator		
Authorisation regime	Exempt from individual licensing		
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference			
Remarks			
Notification number	2007/351/L		
Equipment class	Class 2		



Normative in accordance to the **TCAM RIG II** template



Informative in accordance to the **TCAM RIG II** template

Interface Regulations

Fixed Satellite Service

FSS Earth stations

Parameter	Description		Comment
Frequency band	12750 - 13250 MHz		
Radio Service	Fixed-Satellite (Earth-to-space)		
Application	Satellite systems (civil) FSS Earth stations		
Channel / modulation	Channel spacing	to be defined by the satellite operator	
	Designation of emission	to be defined by the satellite operator	
	Modulation / Occupied bandwidth	to be defined by the satellite operator	
	Reference frequency		
Transmit power / Power density	Output power		defined during licensing procedure
	Antenna Gain		
	Radiated power	Not defined	
Channel access and occupation rules	Duty cycle		
	Access protocol		
	Trans. capacity	to be defined by the satellite operator	
Direction / Separation	to be defined by the satellite operator		
Authorisation regime	Individual licensing		
Add. essential requirements			
Freq. planning assumption	RR App 30B		
Planned changes			
Reference			
Remarks			
Notification number	2007/351/L		
Equipment class	Class 2		



Normative in accordance to the **TCAM RIG II** template



Informative in accordance to the **TCAM RIG II** template

Interface Regulations

Fixed Satellite Service

FSS Earth stations

Parameter	Description		Comment
Frequency band	13750 - 14500 MHz		
Radio Service	Fixed-Satellite (Earth-to-space)		
Application	Satellite systems (civil) FSS Earth stations		
Channel / modulation	Channel spacing	to be defined by the satellite operator	
	Designation of emission	to be defined by the satellite operator	
	Modulation / Occupied bandwidth	to be defined by the satellite operator	
	Reference frequency		
Transmit power / Power density	Output power		defined during licensing procedure
	Antenna Gain		
	Radiated power	Not defined	
Channel access and occupation rules	Duty cycle		
	Access protocol		
	Trans. capacity	to be defined by the satellite operator	
Direction / Separation	to be defined by the satellite operator		
Authorisation regime	Individual licensing		
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference			
Remarks			
Notification number	2007/351/L		
Equipment class	Class 2		



Normative in accordance to the **TCAM RIG II** template



Informative in accordance to the **TCAM RIG II** template

Interface Regulations

Fixed Satellite Service

FSS Earth stations

Parameter	Description		Comment
Frequency band	17700 - 18100 MHz		
Radio Service	Fixed-Satellite (space-to-Earth)		
Application	Satellite systems (civil) FSS Earth stations		
Channel / modulation	Channel spacing	to be defined by the satellite operator	
	Designation of emission	to be defined by the satellite operator	
	Modulation / Occupied bandwidth	to be defined by the satellite operator	
	Reference frequency		
Transmit power / Power density	Output power		defined during licensing
	Antenna Gain		
	Radiated power	Not defined	
Channel access and occupation rules	Duty cycle		
	Access protocol		
	Trans. capacity	to be defined by the satellite operator	
Direction / Separation	to be defined by the satellite operator		
Authorisation regime	Individual licensing		
Add. essential requirements			
Freq. planning assumption	ERC DEC (00)07		
Planned changes			
Reference			
Remarks			
Notification number	2007/351/L		
Equipment class	Class 2		



Normative in accordance to the **TCAM RIG II** template



Informative in accordance to the **TCAM RIG II** template

Interface Regulations

Fixed Satellite Service

FSS Earth stations

Parameter	Description		Comment
Frequency band	18100 - 18400 MHz		
Radio Service	Fixed-Satellite (space-to-Earth) (Earth-to-space)		
Application	Satellite systems (civil) FSS Earth stations		
Channel / modulation	Channel spacing	to be defined by the satellite operator	
	Designation of emission	to be defined by the satellite operator	
	Modulation / Occupied bandwidth	to be defined by the satellite operator	
	Reference frequency		
Transmit power / Power density	Output power		defined during licensing procedure
	Antenna Gain		
	Radiated power	Not defined	
Channel access and occupation rules	Duty cycle		
	Access protocol		
	Trans. capacity	to be defined by the satellite operator	
Direction / Separation	to be defined by the satellite operator		
Authorisation regime	Individual licensing		
Add. essential requirements			
Freq. planning assumption	ERC DEC (00)07		
Planned changes			
Reference			
Remarks			
Notification number	2007/351/L		
Equipment class	Class 2		



Normative in accordance to the **TCAM RIG II** template



Informative in accordance to the **TCAM RIG II** template

Interface Regulations

Fixed Satellite Service

FSS Earth stations

Parameter	Description		Comment
Frequency band	18400 - 19700 MHz		
Radio Service	Fixed-Satellite (space-to-Earth)		
Application	Satellite systems (civil) FSS Earth stations		
Channel / modulation	Channel spacing	to be defined by the satellite operator	
	Designation of emission	to be defined by the satellite operator	
	Modulation / Occupied bandwidth	to be defined by the satellite operator	
	Reference frequency		
Transmit power / Power density	Output power		defined during licensing procedure
	Antenna Gain		
	Radiated power	Not defined	
Channel access and occupation rules	Duty cycle		
	Access protocol		
	Trans. capacity	to be defined by the satellite operator	
Direction / Separation	to be defined by the satellite operator		
Authorisation regime	Individual licensing		
Add. essential requirements			
Freq. planning assumption	ERC DEC (00)07		
Planned changes			
Reference			
Remarks			
Notification number	2007/351/L		
Equipment class	Class 2		

Normative in accordance to the **TCAM RIG II** templateInformative in accordance to the **TCAM RIG II** template

Interface Regulations

Fixed Satellite Service

FSS Earth stations

Parameter	Description		Comment
Frequency band	19700 - 20200 MHz		
Radio Service	Fixed-Satellite (space-to-Earth)		
Application	Satellite systems (civil) FSS Earth stations		
Channel / modulation	Channel spacing	to be defined by the satellite operator	
	Designation of emission	to be defined by the satellite operator	
	Modulation / Occupied bandwidth	to be defined by the satellite operator	
	Reference frequency		
Transmit power / Power density	Output power		defined during licensing procedure
	Antenna Gain		
	Radiated power	Not defined	
Channel access and occupation rules	Duty cycle		
	Access protocol		
	Trans. capacity	to be defined by the satellite operator	
Direction / Separation	to be defined by the satellite operator		
Authorisation regime	Individual licensing		
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference			
Remarks			
Notification number	2007/351/L		
Equipment class	Class 2		



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Interface Regulations

Fixed Satellite Service

FSS Earth stations

Parameter	Description		Comment
Frequency band	27500 - 29500 MHz		
Radio Service	Fixed-Satellite (Earth-to-space)		
Application	Satellite systems (civil) FSS Earth stations		
Channel / modulation	Channel spacing	to be defined by the satellite operator	
	Designation of emission	to be defined by the satellite operator	
	Modulation / Occupied bandwidth	to be defined by the satellite operator	
	Reference frequency		
Transmit power / Power density	Output power		defined during licensing procedure
	Antenna Gain		
	Radiated power	Not defined	
Channel access and occupation rules	Duty cycle		
	Access protocol		
	Trans. capacity	to be defined by the satellite operator	
Direction / Separation	to be defined by the satellite operator		
Authorisation regime	Individual licensing		
Add. essential requirements			
Freq. planning assumption	ECC DEC (05)01		
Planned changes			
Reference			
Remarks			
Notification number	2007/351/L		
Equipment class	Class 2		



Normative in accordance to the **TCAM RIG II** template



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Interface Regulations

Fixed Satellite Service

FSS Earth stations

Parameter	Description		Comment
Frequency band	29500 - 30000 MHz		
Radio Service	Fixed-Satellite (Earth-to-space)		
Application	Satellite systems (civil) FSS Earth stations		
Channel / modulation	Channel spacing	to be defined by the satellite operator	
	Designation of emission	to be defined by the satellite operator	
	Modulation / Occupied bandwidth	to be defined by the satellite operator	
	Reference frequency		
Transmit power / Power density	Output power		defined during licensing procedure
	Antenna Gain		
	Radiated power	Not defined	
Channel access and occupation rules	Duty cycle		
	Access protocol		
	Trans. capacity	to be defined by the satellite operator	
Direction / Separation	to be defined by the satellite operator		
Authorisation regime	Individual licensing		
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference			
Remarks			
Notification number	2007/351/L		
Equipment class	Class 2		



Normative in accordance to the **TCAM RIG II** template



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Interface Regulations

Fixed Satellite Service

FSS Earth stations

Parameter	Description		Comment
Frequency band	37500 - 40500 MHz		
Radio Service	Fixed-Satellite (space-to-Earth)		
Application	Satellite systems (civil) FSS Earth stations		
Channel / modulation	Channel spacing	to be defined by the satellite operator	
	Designation of emission	to be defined by the satellite operator	
	Modulation / Occupied bandwidth	to be defined by the satellite operator	
	Reference frequency		
Transmit power / Power density	Output power		defined during licensing procedure
	Antenna Gain		
	Radiated power	Not defined	
Channel access and occupation rules	Duty cycle		
	Access protocol		
	Trans. capacity	to be defined by the satellite operator	
Direction / Separation	to be defined by the satellite operator		
Authorisation regime			
Add. essential requirements			
Freq. planning assumption	ERC DEC (00)02		
Planned changes			
Reference			
Remarks			
Notification number	2007/351/L		
Equipment class	Class 2		



Normative in accordance to the **TCAM RIG II** template



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Interface Regulations

Fixed Satellite Service

HEST

Parameter	Description		Comment
Frequency band	10700 - 12750 MHz		
Radio Service	Fixed-Satellite (space-to-Earth)		
Application	Satellite systems (civil) FSS Earth stations HEST		For SIT reception. For VSAT use in the range of 12.5-12.75 GHz.
Channel / modulation	Channel spacing		
	Designation of emission		
	Modulation / Occupied bandwidth		
	Reference frequency		
Transmit power / Power density	Output power		When an antenna is coupled to more than one transmitter or a transmitter provides more than one carrier (multi-carrier operation), the EIRP level is the sum of all simultaneous emissions from the antenna on the main lobe.
	Antenna Gain		
	Radiated power	$34 \text{ dBW} < \text{EIRP} \leq 60 \text{ dBW}$	
Channel access and occupation rules	Duty cycle		
	Access protocol		
	Trans. capacity		
Direction / Separation			
Authorisation regime	Exempt from individual licensing.		In case of a higher level than above indicated radiated power a notification to NRA should be done and an individual license should be required.
Add. essential requirements			
Freq. planning assumption	CEPT ECC DEC (06)03		
Planned changes			
Reference	EN 391 428; EN 301 459		
Remarks	Coupled with 29.5-30 GHz		For VSAT use 12.5-12.75 GHz is also coupled with 14-14.25 GHz.
Notification number	2011/547/L		
Equipment class	Class 2		



Normative in accordance to the **TCAM RIG II** template



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Interface Regulations

Fixed Satellite Service

HEST

Parameter	Description		Comment
Frequency band	14000 - 14250 MHz		
Radio Service	Fixed-Satellite (Earth-to-space)		
Application	Satellite systems (civil) FSS Earth stations HEST		For VSAT transmission.
Channel / modulation	Channel spacing		
	Designation of emission		
	Modulation / Occupied bandwidth		
	Reference frequency		
Transmit power / Power density	Output power		When an antenna is coupled to more than one transmitter or a transmitter provides more than one carrier (multi-carrier operation), the EIRP level is the sum of all simultaneous emissions from the antenna on the main lobe.
	Antenna Gain		
	Radiated power	$34 \text{ dBW} < \text{EIRP} \leq 60 \text{ dBW}$	
Channel access and occupation rules	Duty cycle		
	Access protocol		
	Trans. capacity		
Direction / Separation			
Authorisation regime	Exempt from individual licensing.		In case of a higher level than above indicated radiated power a notification to NRA should be done and an individual license should be required.
Add. essential requirements			
Freq. planning assumption	CEPT ECC DEC (06)03		
Planned changes			
Reference	EN 301 428		
Remarks	Coupled with 12.5-12.75 GHz		
Notification number	2011/547/L		
Equipment class	Class 2		



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Interface Regulations

Fixed Satellite Service

HEST

Parameter	Description		Comment
Frequency band	19700 - 20200 MHz		
Radio Service	Fixed-Satellite (space-to-Earth)		
Application	Satellite systems (civil) FSS Earth stations HEST		For SUT reception.
Channel / modulation	Channel spacing		
	Designation of emission		
	Modulation / Occupied bandwidth		
	Reference frequency		
Transmit power / Power density	Output power		When an antenna is coupled to more than one transmitter or a transmitter provides more than one carrier (multi-carrier operation), the EIRP level is the sum of all simultaneous emissions from the antenna on the main lobe.
	Antenna Gain		
	Radiated power	$34 \text{ dBW} < \text{EIRP} \leq 60 \text{ dBW}$	
Channel access and occupation rules	Duty cycle		
	Access protocol		
	Trans. capacity		
Direction / Separation			
Authorisation regime	Exempt from individual licensing.		In case of a higher level than above indicated radiated power a notification to NRA should be done and an individual license should be required.
Add. essential requirements			
Freq. planning assumption	CEPT ECC DEC (06)03		
Planned changes			
Reference	EN 301 459		
Remarks	Coupled with 29.5-30 GHz		
Notification number	2011/547/L		
Equipment class	Class 2		



Normative in accordance to the **TCAM RIG II** template



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Interface Regulations

Fixed Satellite Service

HEST

Parameter	Description		Comment
Frequency band	29500 - 30000 MHz		
Radio Service	Fixed-Satellite (Earth-to-space)		
Application	Satellite systems (civil) FSS Earth stations HEST		For SIT/SUT transmissions.
Channel / modulation	Channel spacing		
	Designation of emission		
	Modulation / Occupied bandwidth		
	Reference frequency		
Transmit power / Power density	Output power		When an antenna is coupled to more than one transmitter or a transmitter provides more than one carrier (multi-carrier operation), the EIRP level is the sum of all simultaneous emissions from the antenna on the main lobe.
	Antenna Gain		
	Radiated power	$34 \text{ dBW} < \text{EIRP} \leq 60 \text{ dBW}$	
Channel access and occupation rules	Duty cycle		
	Access protocol		
	Trans. capacity		
Direction / Separation			
Authorisation regime	Exempt from individual licensing.		In case of a higher level than above indicated radiated power a notification to NRA should be done and an individual license should be required.
Add. essential requirements			
Freq. planning assumption	CEPT ECC DEC (06)03		
Planned changes			
Reference	EN 301 459		
Remarks	Coupled with 10.7-12.75 GHz and 19.7-20.2 GHz		
Notification number	2011/547/L		
Equipment class	Class 2		



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Interface Regulations

Fixed Satellite Service

LEST

Parameter	Description		Comment
Frequency band	10700 - 12750 MHz		
Radio Service	Fixed-Satellite (space-to-Earth)		
Application	Satellite systems (civil) FSS Earth stations LEST		For SIT reception. For VSAT reception in band of 12.5-12.75 GHz
Channel / modulation	Channel spacing		
	Designation of emission		
	Modulation / Occupied bandwidth		
	Reference frequency		
Transmit power / Power density	Output power		When an antenna is coupled to more than one transmitter or a transmitter provides more than one carrier (multi-carrier operation), the EIRP level is the sum of all simultaneous emissions from the antenna on the main lobe.
	Antenna Gain		
	Radiated power	Max. 34 dBW EIRP	
Channel access and occupation rules	Duty cycle		
	Access protocol		
	Trans. capacity		
Direction / Separation			
Authorisation regime	Exempt from individual licensing.		
Add. essential requirements			
Freq. planning assumption	CEPT ECC DEC (06)02		
Planned changes			
Reference	EN 301 428; EN 301 459		
Remarks	Coupled with 29.5-30 GHz		12.5-12.75 GHz also coupled with 14-14.25 GHz.
Notification number	2011/547/L		
Equipment class	Class 2		

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Interface Regulations

Fixed Satellite Service

LEST

Parameter	Description		Comment
Frequency band	14000 - 14250 MHz		
Radio Service	Fixed-Satellite (Earth-to-space)		
Application	Satellite systems (civil) FSS Earth stations LEST		For VSAT transmission.
Channel / modulation	Channel spacing		
	Designation of emission		
	Modulation / Occupied bandwidth		
	Reference frequency		
Transmit power / Power density	Output power		When an antenna is coupled to more than one transmitter or a transmitter provides more than one carrier (multi-carrier operation), the EIRP level is the sum of all simultaneous emissions from the antenna on the main lobe.
	Antenna Gain		
	Radiated power	Max. 34 dBW EIRP	
Channel access and occupation rules	Duty cycle		
	Access protocol		
	Trans. capacity		
Direction / Separation			
Authorisation regime	Exempt from individual licensing.		
Add. essential requirements			
Freq. planning assumption	CEPT ECC DEC (06)02		
Planned changes			
Reference	EN 301 428		
Remarks	Coupled with 12.5-12.75 GHz		
Notification number	2011/547/L		
Equipment class	Class 2		

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Interface Regulations

Fixed Satellite Service

LEST

Parameter	Description		Comment
Frequency band	19700 - 20200 MHz		
Radio Service	Fixed-Satellite (space-to-Earth)		
Application	Satellite systems (civil) FSS Earth stations LEST		For SUT reception.
Channel / modulation	Channel spacing		
	Designation of emission		
	Modulation / Occupied bandwidth		
	Reference frequency		
Transmit power / Power density	Output power		When an antenna is coupled to more than one transmitter or a transmitter provides more than one carrier (multi-carrier operation), the EIRP level is the sum of all simultaneous emissions from the antenna on the main lobe.
	Antenna Gain		
	Radiated power	Max. 34 dBW EIRP	
Channel access and occupation rules	Duty cycle		
	Access protocol		
	Trans. capacity		
Direction / Separation			
Authorisation regime	Exempt from individual licensing.		
Add. essential requirements			
Freq. planning assumption	CEPT ECC DEC (06)02		
Planned changes			
Reference	EN 301 459		
Remarks	Coupled with 29.5-30 GHz		
Notification number	2011/547/L		
Equipment class	Class 2		

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Interface Regulations

Fixed Satellite Service

LEST

Parameter	Description		Comment
Frequency band	29500 - 30000 MHz		
Radio Service	Fixed-Satellite (Earth-to-space)		
Application	Satellite systems (civil) FSS Earth stations LEST		For SIT/SUT transmission.
Channel / modulation	Channel spacing		
	Designation of emission		
	Modulation / Occupied bandwidth		
	Reference frequency		
Transmit power / Power density	Output power		When an antenna is coupled to more than one transmitter or a transmitter provides more than one carrier (multi-carrier operation), the EIRP level is the sum of all simultaneous emissions from the antenna on the main lobe.
	Antenna Gain		
	Radiated power	Max. 34 dBW EIRP	
Channel access and occupation rules	Duty cycle		
	Access protocol		
	Trans. capacity		
Direction / Separation			
Authorisation regime	Exempt from individual licensing.		
Add. essential requirements			
Freq. planning assumption	CEPT ECC DEC (06)02		
Planned changes			
Reference	EN 301 459		
Remarks	Coupled with 10.7-12.75 GHz and 19.7-20.2 GHz		
Notification number	2011/547/L		
Equipment class	Class 2		

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Interface Regulations

Fixed Satellite Service

Earth Stations On Mobile Platforms (ESOMPs) operating with GSO FSS satellite systems

Parameter	Description		Comment
Frequency band	17300 - 20200 MHz		
Radio Service	Fixed-Satellite (space-to-Earth)		
Application	Satellite systems (civil) FSS Earth stations GSO ESOMPs		
Channel / modulation	Channel spacing		Defined by the satellite network operator
	Designation of emission		
	Modulation / Occupied bandwidth		
	Reference frequency		
Transmit power / Power density	Output power	55-60 dBW	The maximum e.i.r.p. of ESOMP equipment shall be limited to a value within the range from 55-60 dBW as specified in Annex 1 of ECC DEC (13)01
	Antenna Gain		
	Radiated power		
Channel access and occupation rules	Duty cycle		Defined by the satellite network operator
	Access protocol		
	Trans. capacity		
Direction / Separation			
Authorisation regime	Exempted from individual licensing		
Add. essential requirements	None		
Freq. planning assumption			Additional technical and operational requirements are described in ECC Decision (13)01 for ESOMP in general, ESOMPs installed onboard an aircraft and ESOMPs installed onboard vessels for the protection of other authorised users in the operating frequency band.
Planned changes			
Reference	EN 303 978 ECC DEC (13)01		
Remarks			
Notification number	2013/216/L		
Equipment class	Class 2		



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Interface Regulations

Fixed Satellite Service

Earth Stations On Mobile Platforms (ESOMPs) operating with GSO FSS satellite systems

Parameter	Description		Comment
Frequency band	27500 - 27828.5 MHz		
Radio Service	Fixed-Satellite (Earth-to-space)		
Application	Satellite systems (civil) FSS Earth stations GSO ESOMPs		
Channel / modulation	Channel spacing		Defined by the satellite network operator
	Designation of emission		
	Modulation / Occupied bandwidth		
	Reference frequency		
Transmit power / Power density	Output power	55-60 dBW	The maximum e.i.r.p. of ESOMP equipment shall be limited to a value within the range from 55-60 dBW as specified in Annex 1 of ECC DEC (13)01
	Antenna Gain		
	Radiated power		
Channel access and occupation rules	Duty cycle		Defined by the satellite network operator
	Access protocol		
	Trans. capacity		
Direction / Separation			
Authorisation regime	Exempted from individual licensing		
Add. essential requirements	None		
Freq. planning assumption			Additional technical and operational requirements are described in ECC Decision (13)01 for ESOMP in general, ESOMPs installed onboard an aircraft and ESOMPs installed onboard vessels for the protection of other authorised users in the operating frequency band.
Planned changes			
Reference	EN 303 978 ECC DEC (13)01		
Remarks			
Notification number	2013/216/L		
Equipment class	Class 2		



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Interface Regulations

Fixed Satellite Service

Earth Stations On Mobile Platforms (ESOMPs) operating with GSO FSS satellite systems

Parameter	Description		Comment
Frequency band	28444.5 - 28948.5 MHz		
Radio Service	Fixed-Satellite (Earth-to-space)		
Application	Satellite systems (civil) FSS Earth stations GSO ESOMPs		
Channel / modulation	Channel spacing		Defined by the satellite network operator
	Designation of emission		
	Modulation / Occupied bandwidth		
	Reference frequency		
Transmit power / Power density	Output power	55-60 dBW	The maximum e.i.r.p. of ESOMP equipment shall be limited to a value within the range from 55-60 dBW as specified in Annex 1 of ECC DEC (13)01
	Antenna Gain		
	Radiated power		
Channel access and occupation rules	Duty cycle		Defined by the satellite network operator
	Access protocol		
	Trans. capacity		
Direction / Separation			
Authorisation regime	Exempted from individual licensing		
Add. essential requirements	None		
Freq. planning assumption			Additional technical and operational requirements are described in ECC Decision (13)01 for ESOMP in general, ESOMPs installed onboard an aircraft and ESOMPs installed onboard vessels for the protection of other authorised users in the operating frequency band.
Planned changes			
Reference	EN 303 978 ECC DEC (13)01		
Remarks			
Notification number	2013/216/L		
Equipment class	Class 2		



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Interface Regulations

Fixed Satellite Service

Earth Stations On Mobile Platforms (ESOMPs) operating with GSO FSS satellite systems

Parameter	Description		Comment
Frequency band	29452.5 - 30000 MHz		
Radio Service	Fixed-Satellite (Earth-to-space)		
Application	Satellite systems (civil) FSS Earth stations GSO ESOMPs		
Channel / modulation	Channel spacing		Defined by the satellite network operator
	Designation of emission		
	Modulation / Occupied bandwidth		
	Reference frequency		
Transmit power / Power density	Output power	55-60 dBW	The maximum e.i.r.p. of ESOMP equipment shall be limited to a value within the range from 55-60 dBW as specified in Annex 1 of ECC DEC (13)01
	Antenna Gain		
	Radiated power		
Channel access and occupation rules	Duty cycle		Defined by the satellite network operator
	Access protocol		
	Trans. capacity		
Direction / Separation			
Authorisation regime	Exempted from individual licensing		
Add. essential requirements	None		
Freq. planning assumption			Additional technical and operational requirements are described in ECC Decision (13)01 for ESOMP in general, ESOMPs installed onboard an aircraft and ESOMPs installed onboard vessels for the protection of other authorised users in the operating frequency band.
Planned changes			
Reference	EN 303 978 ECC Decision (13)01		
Remarks			
Notification number	2013/216/L		
Equipment class	Class 2		



Normative in accordance to the **TCAM RIG II** template



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Interface Regulations

Fixed Satellite Service

Earth Stations On Mobile Platforms (ESOMPs) operating with NGSO FSS satellite systems

Parameter	Description		Comment
Frequency band	17300 - 20200 MHz		17.3 - 19.7 GHz and 19.7 - 20.2 GHz
Radio Service	Fixed-Satellite (space-to-Earth)		
Application	Satellite systems (civil) FSS Earth stations NGSO ESOMPs		
Channel / modulation	Channel spacing		Defined by the satellite network operator
	Designation of emission		
	Modulation / Occupied bandwidth		
	Reference frequency		
Transmit power / Power density	Output power		Technical and operational requirements according to ECC DEC (15)04
	Antenna Gain		
	Radiated power		
Channel access and occupation rules	Duty cycle		Defined by the satellite network operator
	Access protocol		
	Trans. capacity		
Direction / Separation			
Authorisation regime	Exempted from individual licensing		
Add. essential requirements			
Freq. planning assumption	Additional technical and operational requirements according to ECC DEC (15)04		
Planned changes			
Reference	EN 303 979 ECC DEC (15)04		
Remarks	17.3–19.7 GHz / 27.5–27.8285 GHz and 28.4445–28.8365 GHz; 19.7-20.2 GHz / with 29.5-30.0 GHz		
Notification number	2016/7/L		
Equipment class	Class 2		



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Interface Regulations

Fixed Satellite Service

Earth Stations On Mobile Platforms (ESOMPs) operating with NGSO FSS satellite systems

Parameter	Description		Comment
Frequency band	27500 - 27828.5 MHz		
Radio Service	Fixed-Satellite (Earth-to-space)		
Application	Satellite systems (civil) FSS Earth stations NGSO ESOMPs		
Channel / modulation	Channel spacing		Defined by the satellite network operator
	Designation of emission		
	Modulation / Occupied bandwidth		
	Reference frequency		
Transmit power / Power density	Output power		Technical and operational requirements according to ECC DEC (15)04
	Antenna Gain		
	Radiated power		
Channel access and occupation rules	Duty cycle		Defined by the satellite network operator
	Access protocol		
	Trans. capacity		
Direction / Separation			
Authorisation regime	Exempted from individual licensing		
Add. essential requirements			
Freq. planning assumption	Additional technical and operational requirements according to ECC DEC (15)04		
Planned changes			
Reference	EN 303 979 ECC DEC (15)04		
Remarks	Coupled with 17.3 – 19.7 GHz		
Notification number	2016/7/L		
Equipment class	Class 2		



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Informative in accordance to the **TCAM RIG II** template

Interface Regulations

Fixed Satellite Service

Earth Stations On Mobile Platforms (ESOMPs) operating with NGSO FSS satellite systems

Parameter	Description		Comment
Frequency band	28444.5 - 28836.5 MHz		
Radio Service	Fixed-Satellite (Earth-to-space)		
Application	Satellite systems (civil) FSS Earth stations NGSO ESOMPs		
Channel / modulation	Channel spacing		Defined by the satellite network operator
	Designation of emission		
	Modulation / Occupied bandwidth		
	Reference frequency		
Transmit power / Power density	Output power		Technical and operational requirements according to ECC DEC (15)04
	Antenna Gain		
	Radiated power		
Channel access and occupation rules	Duty cycle		Defined by the satellite network operator
	Access protocol		
	Trans. capacity		
Direction / Separation			
Authorisation regime	Exempted from individual licensing		
Add. essential requirements			
Freq. planning assumption	Additional technical and operational requirements according to ECC DEC (15)45		
Planned changes			
Reference	EN 303 979 ECC DEC (15)04		
Remarks	Coupled with 17.3 – 19.7 GHz		
Notification number	2016/7/L		
Equipment class	Class 2		



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Interface Regulations

Fixed Satellite Service

Earth Stations On Mobile Platforms (ESOMPs) operating with NGSO FSS satellite systems

Parameter	Description		Comment
Frequency band	29500 - 30000 MHz		
Radio Service	Fixed-Satellite (Earth-to-space)		
Application	Satellite systems (civil) FSS Earth stations NGSO ESOMPs		
Channel / modulation	Channel spacing		Defined by the satellite network operator
	Designation of emission		
	Modulation / Occupied bandwidth		
	Reference frequency		
Transmit power / Power density	Output power		Technical and operational requirements according to ECC DEC (15)04
	Antenna Gain		
	Radiated power		
Channel access and occupation rules	Duty cycle		Defined by the satellite network operator
	Access protocol		
	Trans. capacity		
Direction / Separation			
Authorisation regime	Exempted from individual licensing		
Add. essential requirements			
Freq. planning assumption	Additional technical and operational requirements according to ECC DEC (15)04		
Planned changes			
Reference	EN 303 979 ECC DEC (15)04		
Remarks	Coupled with 19.7 – 20.2 GHz		
Notification number	2016/7/L		
Equipment class	Class 2		



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Interface Regulations

Fixed Satellite Service

Feeder links

Parameter	Description		Comment
Frequency band	17300 - 18100 MHz		
Radio Service	Fixed-Satellite (Earth-to-space)		
Application	Satellite systems (civil) Feeder links		
Channel / modulation	Channel spacing	to be defined by the satellite operator	
	Designation of emission	to be defined by the satellite operator	
	Modulation / Occupied bandwidth	to be defined by the satellite operator	
	Reference frequency		
Transmit power / Power density	Output power		defined during licensing procedure
	Antenna Gain		
	Radiated power	Not defined	
Channel access and occupation rules	Duty cycle		
	Access protocol		
	Trans. capacity	to be defined by the satellite operator	
Direction / Separation	to be defined by the satellite operator		
Authorisation regime	Individual licensing		
Add. essential requirements			
Freq. planning assumption	RR App 30A		
Planned changes			
Reference			
Remarks			
Notification number	2007/351/L		
Equipment class	Class 2		



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Interface Regulations

Fixed Satellite Service

Feeder links

Parameter	Description		Comment
Frequency band	27500 - 29500 MHz		
Radio Service	Fixed-Satellite (Earth-to-space)		
Application	Satellite systems (civil) Feeder links		
Channel / modulation	Channel spacing	to be defined by the satellite operator	
	Designation of emission	to be defined by the satellite operator	
	Modulation / Occupied bandwidth	to be defined by the satellite operator	
	Reference frequency		
Transmit power / Power density	Output power		defined during licensing procedure
	Antenna Gain		
	Radiated power	Not defined	
Channel access and occupation rules	Duty cycle		
	Access protocol		
	Trans. capacity	to be defined by the satellite operator	
Direction / Separation	to be defined by the satellite operator		
Authorisation regime	Individual licensing		
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference			
Remarks			
Notification number	2007/351/L		
Equipment class	Class 2		

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Interface Regulations

Fixed Satellite Service

HDFSS

Parameter	Description		Comment
Frequency band	17300 - 17700 MHz		
Radio Service	Fixed-Satellite (space-to-Earth)		
Application	Satellite systems (civil) FSS Earth stations		
Channel / modulation	Channel spacing	to be defined by the satellite operator	
	Designation of emission	to be defined by the satellite operator	
	Modulation / Occupied bandwidth	to be defined by the satellite operator	
	Reference frequency		
Transmit power / Power density	Output power		defined during licensing procedure
	Antenna Gain		
	Radiated power	Not defined	
Channel access and occupation rules	Duty cycle		
	Access protocol		
	Trans. capacity	to be defined by the satellite operator	
Direction / Separation	to be defined by the satellite operator		
Authorisation regime	Individual licensing		
Add. essential requirements			
Freq. planning assumption	ECC DEC (05)08		
Planned changes			
Reference			
Remarks			
Notification number	2007/351/L		
Equipment class	Class 2		

Normative in accordance to the **TCAM RIG II** templateInformative in accordance to the **TCAM RIG II** template

Interface Regulations

Fixed Satellite Service

HDFSS

Parameter	Description		Comment
Frequency band	19700 - 20200 MHz		
Radio Service	Fixed-Satellite (space-to-Earth)		
Application	Satellite systems (civil) FSS Earth stations		
Channel / modulation	Channel spacing	to be defined by the satellite operator	
	Designation of emission	to be defined by the satellite operator	
	Modulation / Occupied bandwidth	to be defined by the satellite operator	
	Reference frequency		
Transmit power / Power density	Output power		defined during licensing procedure
	Antenna Gain		
	Radiated power	Not defined	
Channel access and occupation rules	Duty cycle		
	Access protocol		
	Trans. capacity	to be defined by the satellite operator	
Direction / Separation	to be defined by the satellite operator		
Authorisation regime	Individual licensing		
Add. essential requirements			
Freq. planning assumption	ECC DEC (05)08		
Planned changes			
Reference			
Remarks			
Notification number	2007/351/L		
Equipment class	Class 2		

Normative in accordance to the **TCAM RIG II** templateInformative in accordance to the **TCAM RIG II** template

Interface Regulations

Fixed Satellite Service

HDFSS

Parameter	Description		Comment
Frequency band	29500 - 30000 MHz		
Radio Service	Fixed-Satellite (Earth-to-space)		
Application	Satellite systems (civil) FSS Earth stations		
Channel / modulation	Channel spacing	to be defined by the satellite operator	
	Designation of emission	to be defined by the satellite operator	
	Modulation / Occupied bandwidth	to be defined by the satellite operator	
	Reference frequency		
Transmit power / Power density	Output power		defined during licensing procedure
	Antenna Gain		
	Radiated power	Not defined	
Channel access and occupation rules	Duty cycle		
	Access protocol		
	Trans. capacity	to be defined by the satellite operator	
Direction / Separation	to be defined by the satellite operator		
Authorisation regime	Individual licensing		
Add. essential requirements			
Freq. planning assumption	ECC DEC (05)08		
Planned changes			
Reference			
Remarks			
Notification number	2007/351/L		
Equipment class	Class 2		



Normative in accordance to the **TCAM RIG II** template



Informative in accordance to the **TCAM RIG II** template

Interface Regulations

Fixed Satellite Service

HDFSS

Parameter	Description		Comment
Frequency band	47500 - 47900 MHz		
Radio Service	Fixed-Satellite (space-to-Earth)		
Application	Satellite systems (civil) FSS Earth stations		
Channel / modulation	Channel spacing	to be defined by the satellite operator	
	Designation of emission	to be defined by the satellite operator	
	Modulation / Occupied bandwidth	to be defined by the satellite operator	
	Reference frequency		
Transmit power / Power density	Output power		defined during licensing procedure
	Antenna Gain		
	Radiated power	to be defined by the satellite operator	
Channel access and occupation rules	Duty cycle		
	Access protocol		
	Trans. capacity	to be defined by the satellite operator	
Direction / Separation	to be defined by the satellite operator		
Authorisation regime	Individual licensing		
Add. essential requirements			
Freq. planning assumption	ECC DEC (05)08		
Planned changes			
Reference			
Remarks			
Notification number	2007/351/L		
Equipment class	Class 2		

Normative in accordance to the **TCAM RIG II** templateInformative in accordance to the **TCAM RIG II** template

Interface Regulations

Fixed Satellite Service

HDFSS

Parameter	Description		Comment
Frequency band	48200 - 48540 MHz		
Radio Service	Fixed-Satellite (space-to-Earth)		
Application	Satellite systems (civil) FSS Earth stations		
Channel / modulation	Channel spacing	to be defined by the satellite operator	
	Designation of emission	to be defined by the satellite operator	
	Modulation / Occupied bandwidth	to be defined by the satellite operator	
	Reference frequency		
Transmit power / Power density	Output power		defined during licensing procedure
	Antenna Gain		
	Radiated power	Note defined	
Channel access and occupation rules	Duty cycle		
	Access protocol		
	Trans. capacity	to be defined by the satellite operator	
Direction / Separation	to be defined by the satellite operator		
Authorisation regime	Individual licensing		
Add. essential requirements			
Freq. planning assumption	ECC DEC (05)08		
Planned changes			
Reference			
Remarks			
Notification number	2007/351/L		
Equipment class	Class 2		

Normative in accordance to the **TCAM RIG II** templateInformative in accordance to the **TCAM RIG II** template

Interface Regulations

Fixed Satellite Service

HDFSS

Parameter	Description		Comment
Frequency band	49440 - 50200 MHz		
Radio Service	Fixed-Satellite (space-to-Earth)		
Application	Satellite systems (civil) FSS Earth stations		
Channel / modulation	Channel spacing	to be defined by the satellite operator	
	Designation of emission	to be defined by the satellite operator	
	Modulation / Occupied bandwidth	to be defined by the satellite operator	
	Reference frequency		
Transmit power / Power density	Output power		defined during licensing procedure
	Antenna Gain		
	Radiated power	Not defined	
Channel access and occupation rules	Duty cycle		
	Access protocol		
	Trans. capacity	to be defined by the satellite operator	
Direction / Separation	to be defined by the satellite operator		
Authorisation regime	Individual licensing		
Add. essential requirements			
Freq. planning assumption	ECC DEC (05)08		
Planned changes			
Reference			
Remarks			
Notification number	2007/351/L		
Equipment class	Class 2		



Normative in accordance to the **TCAM RIG II** template



Informative in accordance to the **TCAM RIG II** template

Interface Regulations

Fixed Satellite Service

SIT/SUT

Parameter	Description		Comment
Frequency band	10700 - 12750 MHz		
Radio Service	Fixed-Satellite (space-to-Earth)		
Application	Satellite systems (civil) FSS Earth stations SIT/SUT		For SIT reception.
Channel / modulation	Channel spacing		
	Designation of emission		
	Modulation / Occupied bandwidth		
	Reference frequency		
Transmit power / Power density	Output power		
	Antenna Gain		
	Radiated power	Not defined	
Channel access and occupation rules	Duty cycle		
	Access protocol		
	Trans. capacity		
Direction / Separation			
Authorisation regime	An individual license is required.		
Add. essential requirements			
Freq. planning assumption	Appendix 30B of the Radio Regulations; CEPT ERC DEC (00)08		Appendix 30B of the Radio Regulations in the range of 10.7-10.95 GHz and 11.2-11.45 GHz. CEPT ERC DEC (00)08 in the range of 10.7-12.5 GHz.
Planned changes			
Reference	EN 301 360		
Remarks	Coupled with 27.5-29.5 GHz.		
Notification number	2011/548/L		
Equipment class	Class 2		

Normative in accordance to the **TCAM RIG II** templateInformative in accordance to the **TCAM RIG II** template

Interface Regulations

Fixed Satellite Service

SIT/SUT

Parameter	Description		Comment
Frequency band	17700 - 19700 MHz		
Radio Service	Fixed-Satellite (space-to-Earth)		
Application	Satellite systems (civil) FSS Earth stations SIT/SUT		For SUT reception
Channel / modulation	Channel spacing		
	Designation of emission		
	Modulation / Occupied bandwidth		
	Reference frequency		
Transmit power / Power density	Output power		
	Antenna Gain		
	Radiated power	Not defined	
Channel access and occupation rules	Duty cycle		
	Access protocol		
	Trans. capacity		
Direction / Separation			
Authorisation regime	An individual license is required.		
Add. essential requirements			
Freq. planning assumption	CEPT ERC DEC (00)07		
Planned changes			
Reference	EN 301 360; EN 301 459		
Remarks	Coupled with 27.5-29.5 GHz and 29.5-30.0 GHz		
Notification number	2011/548/L		
Equipment class	Class 2		

Normative in accordance to the **TCAM RIG II** templateInformative in accordance to the **TCAM RIG II** template

Interface Regulations

Fixed Satellite Service

SIT/SUT

Parameter	Description		Comment
Frequency band	19700 - 20200 MHz		
Radio Service	Fixed-Satellite (space-to-Earth)		
Application	Satellite systems (civil) FSS Earth stations SIT/SUT		For SUT reception.
Channel / modulation	Channel spacing		
	Designation of emission		
	Modulation / Occupied bandwidth		
	Reference frequency		
Transmit power / Power density	Output power		
	Antenna Gain		
	Radiated power	Not defined	
Channel access and occupation rules	Duty cycle		
	Access protocol		
	Trans. capacity		
Direction / Separation			
Authorisation regime	An individual license is required.		
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	EN 301 360		
Remarks	Coupled with 27.5-29.5 GHz		
Notification number	2011/548/L		
Equipment class	Class 2		

Normative in accordance to the **TCAM RIG II** templateInformative in accordance to the **TCAM RIG II** template

Interface Regulations

Fixed Satellite Service

SIT/SUT

Parameter	Description		Comment
Frequency band	27500 - 29500 MHz		
Radio Service	Fixed-Satellite (Earth-to-space)		
Application	Satellite systems (civil) FSS Earth stations SIT/SUT		For SIT/SUT transmission
Channel / modulation	Channel spacing		
	Designation of emission		
	Modulation / Occupied bandwidth		
	Reference frequency		
Transmit power / Power density	Output power		defined during licensing procedure
	Antenna Gain		
	Radiated power	Not defined	
Channel access and occupation rules	Duty cycle		
	Access protocol		
	Trans. capacity		
Direction / Separation			
Authorisation regime	An individual license is required.		
Add. essential requirements			
Freq. planning assumption	CEPT ECC DEC (05)01		
Planned changes			
Reference	EN 301 360		
Remarks	Coupled with 10.7-12.75 GHz; 17.7-20.2 GHz and 21.40-22.00 GHz.		
Notification number	2011/548/L		
Equipment class	Class 2		

Normative in accordance to the **TCAM RIG II** templateInformative in accordance to the **TCAM RIG II** template

Interface Regulations

Fixed Satellite Service

SIT/SUT

Parameter	Description		Comment
Frequency band	29500 - 30000 MHz		
Radio Service	Fixed-Satellite (space-to-Earth)		
Application	Satellite systems (civil) FSS Earth stations SIT/SUT		For SIT/SUT transmissions
Channel / modulation	Channel spacing		
	Designation of emission		
	Modulation / Occupied bandwidth		
	Reference frequency		
Transmit power / Power density	Output power		defined during licensing procedure
	Antenna Gain		
	Radiated power	Not defined	
Channel access and occupation rules	Duty cycle		
	Access protocol		
	Trans. capacity		
Direction / Separation			
Authorisation regime	An individual license is required.		
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	EN 301 459		
Remarks	Coupled with 17.70-19.70 GHz and 21.40-22.00 GHz		
Notification number	2011/548/L		
Equipment class	Class 2		

Normative in accordance to the **TCAM RIG II** templateInformative in accordance to the **TCAM RIG II** template

Interface Regulations

Fixed Satellite Service

SNG

Parameter	Description		Comment
Frequency band	10700 - 11700 MHz		
Radio Service	Fixed-Satellite (space-to-Earth)		
Application	Satellite systems (civil) FSS Earth stations SNG		
Channel / modulation	Channel spacing	to be defined by the satellite operator	
	Designation of emission	to be defined by the satellite operator	
	Modulation / Occupied bandwidth	to be defined by the satellite operator	
	Reference frequency		
Transmit power / Power density	Output power		
	Antenna Gain		
	Radiated power	Not defined	
Channel access and occupation rules	Duty cycle		
	Access protocol		
	Trans. capacity	to be defined by the satellite operator	
Direction / Separation	to be defined by the satellite operator		
Authorisation regime	Exempt from individual licensing		
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	EN 301 430		
Remarks			
Notification number	2007/351/L		
Equipment class	Class 2		

Normative in accordance to the **TCAM RIG II** templateInformative in accordance to the **TCAM RIG II** template

Interface Regulations

Fixed Satellite Service

SNG

Parameter	Description		Comment
Frequency band	14000 - 14500 MHz		
Radio Service	Fixed-Satellite (Earth-to-space)		
Application	Satellite systems (civil) FSS Earth stations SNG		
Channel / modulation	Channel spacing	to be defined by the satellite operator	
	Designation of emission	to be defined by the satellite operator	
	Modulation / Occupied bandwidth	to be defined by the satellite operator	
	Reference frequency		
Transmit power / Power density	Output power		
	Antenna Gain		
	Radiated power	Not defined	
Channel access and occupation rules	Duty cycle		
	Access protocol		
	Trans. capacity	to be defined by the satellite operator	
Direction / Separation	to be defined by the satellite operator		
Authorisation regime	Exempt from individual licensing		
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	EN 301 430		
Remarks			
Notification number	2007/351/L		
Equipment class	Class 2		

Normative in accordance to the **TCAM RIG II** templateInformative in accordance to the **TCAM RIG II** template

Interface Regulations

Fixed Satellite Service

SNG

Parameter	Description		Comment
Frequency band	12500 - 12750 MHz		
Radio Service	Fixed-Satellite (space-to-Earth)		
Application	Satellite systems (civil) FSS Earth stations SNG		
Channel / modulation	Channel spacing	to be defined by the satellite operator	
	Designation of emission	to be defined by the satellite operator	
	Modulation / Occupied bandwidth	to be defined by the satellite operator	
	Reference frequency		
Transmit power / Power density	Output power		
	Antenna Gain		
	Radiated power	Not defined	
Channel access and occupation rules	Duty cycle		
	Access protocol		
	Trans. capacity	to be defined by the satellite operator	
Direction / Separation	to be defined by the satellite operator		
Authorisation regime	Exempt from individual licensing		
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	EN 302 340		
Remarks			
Notification number	2007/351/L		
Equipment class	Class 2		

Normative in accordance to the **TCAM RIG II** templateInformative in accordance to the **TCAM RIG II** template

Interface Regulations

Fixed Satellite Service

VSAT

Parameter	Description		Comment
Frequency band	10700 - 11700 MHz		
Radio Service	Fixed-Satellite (space-to-Earth)		
Application	Satellite systems (civil) FSS Earth stations VSAT		
Channel / modulation	Channel spacing		
	Designation of emission		
	Modulation / Occupied bandwidth		
	Reference frequency		
Transmit power / Power density	Output power	Max. 2W	
	Antenna Gain		
	Radiated power	Max. EIRP: 50 dBW	
Channel access and occupation rules	Duty cycle		
	Access protocol		
	Trans. capacity		
Direction / Separation			
Authorisation regime	A notification to the NRA is required.		
Add. essential requirements			
Freq. planning assumption	Appendix 30B of the Radio Regulations: CEPT ECC DEC (03)04		Appendix 30B of the Radio Regulations in the range of 10.7 - 10.95 GHz and 11.2 - 11.45 GHz
Planned changes			
Reference	EN 301 428		
Remarks	Coupled with 14.25-14.5 GHz		
Notification number	2011/548/L		
Equipment class	Class 2		

Normative in accordance to the **TCAM RIG II** templateInformative in accordance to the **TCAM RIG II** template

Interface Regulations

Fixed Satellite Service

VSAT

Parameter	Description		Comment
Frequency band	14250 - 14500 MHz		
Radio Service	Fixed-Satellite (Earth-to-space)		
Application	Satellite systems (civil) FSS Earth stations VSAT		
Channel / modulation	Channel spacing		
	Designation of emission		
	Modulation / Occupied bandwidth		
	Reference frequency		
Transmit power / Power density	Output power	Max. 2W	
	Antenna Gain		
	Radiated power	Max eirp: 50 dBW	
Channel access and occupation rules	Duty cycle		
	Access protocol		
	Trans. capacity		
Direction / Separation			
Authorisation regime	A notification to the NRA is required.		
Add. essential requirements			
Freq. planning assumption	CEPT ECC DEC (03)04		
Planned changes			
Reference	EN 301 428		
Remarks	Coupled with 10.7-11.7 GHz		
Notification number	2011/548/L		
Equipment class	Class 2		

Normative in accordance to the **TCAM RIG II** templateInformative in accordance to the **TCAM RIG II** template

Interface Regulations

Mobile Satellite Service

MSS Earth stations

Parameter	Description		Comment
Frequency band	137 - 138 MHz		
Radio Service	Mobile-Satellite (space-to-Earth)		
Application	Satellite systems (civil) MSS Earth stations S-PCS		
Channel / modulation	Channel spacing		Maximum burst length duration on S-PCS terminal transmission: 500 msec.
	Designation of emission	Narrow band Frequency or Phase modulation	
	Modulation / Occupied bandwidth		
	Reference frequency		
Transmit power / Power density	Output power		
	Antenna Gain		
	Radiated power	Max. Spectrum density of EIRP: 10dBW/4kHz	
Channel access and occupation rules	Duty cycle	1% in any 15 minutes period from any single channel.	Consecutive transmissions from a single earth station on the same frequency shall be separated by at least 15 seconds.
	Access protocol	FDMA	
	Trans. capacity		
Direction / Separation			
Authorisation regime	Exempt from individual licensing.		
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	CEPT ERC DEC (99)05; CEPT ERC DEC (99)06 EN 301 721		
Remarks	Coupled with 148-150.05 MHz		
Notification number	2011/548/L		
Equipment class	Class 2		

Normative in accordance to the **TCAM RIG II** templateInformative in accordance to the **TCAM RIG II** template

Interface Regulations

Mobile Satellite Service

MSS Earth stations

Parameter	Description		Comment
Frequency band	148 - 150.05 MHz		
Radio Service	Mobile-Satellite (Earth-to-space)		
Application	Satellite systems (civil) MSS Earth stations S-PCS		
Channel / modulation	Channel spacing		
	Designation of emission	Narrow band Frequency or Phase modulation	
	Modulation / Occupied bandwidth		
	Reference frequency		
Transmit power / Power density	Output power		Maximum burst length duration on S-PCS terminal transmission: 500 msec.
	Antenna Gain		
	Radiated power	Max. Spectrum density of EIRP: 10dBW/4kHz	
Channel access and occupation rules	Duty cycle	1% in any 15 minutes period from any single channel.	Consecutive transmissions from a single earth station on the same frequency shall be separated by at least 15 seconds.
	Access protocol	FDMA	
	Trans. capacity		
Direction / Separation			
Authorisation regime	Exempt from individual licensing		
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	CEPT ERC DEC (99)05; CEPT ERC DEC (99)06 EN 301 721		
Remarks	Coupled with 137-138 MHz		
Notification number	2011/548/L		
Equipment class	Class 2		

Normative in accordance to the **TCAM RIG II** templateInformative in accordance to the **TCAM RIG II** template

Interface Regulations

Mobile Satellite Service

MSS Earth stations

Parameter	Description		Comment
Frequency band	1518 - 1525 MHz		
Radio Service	Mobile-Satellite (space-to-Earth) ----- Land Mobile-Satellite (space-to-Earth) -----		
Application	Satellite systems (civil) ----- MSS Earth stations -----		
Channel / modulation	Channel spacing	to be defined by the satellite operator	
	Designation of emission	to be defined by the satellite operator	
	Modulation / Occupied bandwidth	to be defined by the satellite operator	
	Reference frequency		
Transmit power / Power density	Output power		defined during licensing procedure
	Antenna Gain		
	Radiated power	Not defined	
Channel access and occupation rules	Duty cycle		
	Access protocol		
	Trans. capacity	to be defined by the satellite operator	
Direction / Separation	to be defined by the satellite operator		
Authorisation regime	Individual licensing		
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	ECC DEC (04)09; CEPT ECC DEC (12)01 EN 301 444; EN 301 473; EN 301 681		
Remarks	Coupled with 1670-1675 MHz		
Notification number	2007/351/L		
Equipment class	Class 2		

Normative in accordance to the **TCAM RIG II** templateInformative in accordance to the **TCAM RIG II** template

Interface Regulations

Mobile Satellite Service

MSS Earth stations

Parameter	Description		Comment
Frequency band	1670 - 1675 MHz		
Radio Service	Mobile-Satellite (Earth-to-space) ----- Land Mobile-Satellite (Earth-to-space) -----		
Application	Satellite systems (civil) ----- MSS Earth stations -----		
Channel / modulation	Channel spacing	to be defined by the satellite operator	
	Designation of emission	to be defined by the satellite operator	
	Modulation / Occupied bandwidth	to be defined by the satellite operator	
	Reference frequency		
Transmit power / Power density	Output power		defined during licensing procedure
	Antenna Gain		
	Radiated power	Not defined	
Channel access and occupation rules	Duty cycle		
	Access protocol		
	Trans. capacity	to be defined by the satellite operator	
Direction / Separation	to be defined by the satellite operator		
Authorisation regime	Individual licensing		
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	ECC DEC (04)09; CEPT ECC DEC (12)01 EN 301 444; EN 301 473; EN 301 681		
Remarks	Coupled with 1518-1525 MHz		
Notification number	2007/351/L		
Equipment class	Class 2		

Normative in accordance to the **TCAM RIG II** templateInformative in accordance to the **TCAM RIG II** template

Interface Regulations

Mobile Satellite Service

MSS Earth stations

Parameter	Description		Comment
Frequency band	1525 - 1544 MHz		
Radio Service	Mobile-Satellite (space-to-Earth) ----- Land Mobile-Satellite (space-to-Earth) -----		
Application	Satellite systems (civil) ----- MSS Earth stations -----		Provide voice and/or data communications
Channel / modulation	Channel spacing	to be defined by the satellite operator	
	Designation of emission		
	Modulation / Occupied bandwidth	to be defined by the satellite operator	
	Reference frequency		
Transmit power / Power density	Output power		148 dBpW for angle < 40 degrees ; 177 - 25 log f dBpW for 40 degrees < f < 75 degrees ; 130 dBpW for angle > 75 degrees; angle: between the main beam axis and the direction considered
	Antenna Gain		
	Radiated power	Not defined	
Channel access and occupation rules	Duty cycle		
	Access protocol		
	Trans. capacity	to be defined by the satellite operator	
Direction / Separation	to be defined by the satellite operator		
Authorisation regime			
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	CEPT ECC DEC (12)01; CEPT ERC DEC (95)01 EN 301 444, EN 301 681		
Remarks	Coupled with 1631.5-1634.5 MHz		
Notification number	2013/32/L		
Equipment class	Class 1		Refer to sub-class 11 (2000/299/EC)

Normative in accordance to the **TCAM RIG II** templateInformative in accordance to the **TCAM RIG II** template

Interface Regulations

Mobile Satellite Service

MSS Earth stations

Parameter	Description		Comment
Frequency band	1631.5 - 1634.5 MHz		
Radio Service	Mobile-Satellite (Earth-to-space) ----- Land Mobile-Satellite (Earth-to-space) -----		
Application	Satellite systems (civil) ----- MSS Earth stations -----		Provide voice and/or data communications
Channel / modulation	Channel spacing	to be defined by the satellite operator	
	Designation of emission		
	Modulation / Occupied bandwidth	to be defined by the satellite operator	
	Reference frequency		
Transmit power / Power density	Output power		148 dBpW for angle < 40 degrees ; 177 - 25 log f dBpW for 40 degrees < f < 75 degrees ; 130 dBpW for angle > 75 degrees; angle: between the main beam axis and the direction considered
	Antenna Gain		
	Radiated power	Not defined	
Channel access and occupation rules	Duty cycle		
	Access protocol		
	Trans. capacity	to be defined by the satellite operator	
Direction / Separation	to be defined by the satellite operator		
Authorisation regime			
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	ECC/DEC/(12)01 EN 301 444, EN 301 681		
Remarks	Coupled with 1525-1544 MHz		
Notification number	2013/32/L		
Equipment class	Class 1		Refer to sub-class 11 (2000/299/EC)

Normative in accordance to the **TCAM RIG II** templateInformative in accordance to the **TCAM RIG II** template

Interface Regulations

Mobile Satellite Service

MSS Earth stations

Parameter	Description		Comment
Frequency band	1555 - 1559 MHz		
Radio Service	Mobile-Satellite (space-to-Earth) ----- Land Mobile-Satellite (space-to-Earth) -----		
Application	Satellite systems (civil) ----- MSS Earth stations -----		Provide voice and/or data communications
Channel / modulation	Channel spacing	to be defined by the satellite operator	
	Designation of emission		
	Modulation / Occupied bandwidth	to be defined by the satellite operator	
	Reference frequency		
Transmit power / Power density	Output power		148 dBpW for angle < 40 degrees ; 177 - 25 log f dBpW for 40 degrees < f < 75 degrees ; 130 dBpW for angle > 75 degrees; angle: between the main beam axis and the direction considered
	Antenna Gain		
	Radiated power	Not defined	
Channel access and occupation rules	Duty cycle		
	Access protocol		
	Trans. capacity	to be defined by the satellite operator	
Direction / Separation	to be defined by the satellite operator		
Authorisation regime			
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	ECC/DEC/(12)01 EN 301 444, EN 301 681		
Remarks	Coupled with 1656.5-1660.5 MHz		
Notification number	2013/32/L		
Equipment class	Class 1		Refer to sub-class 11 (2000/299/EC)

Normative in accordance to the **TCAM RIG II** templateInformative in accordance to the **TCAM RIG II** template

Interface Regulations

Mobile Satellite Service

MSS Earth stations

Parameter	Description		Comment
Frequency band	1656.5 - 1660.5 MHz		
Radio Service	Mobile-Satellite (Earth-to-space) ----- Land Mobile-Satellite (Earth-to-space) -----		
Application	Satellite systems (civil) ----- MSS Earth stations -----		Provide voice and/or data communications
Channel / modulation	Channel spacing	to be defined by the satellite operator	
	Designation of emission		
	Modulation / Occupied bandwidth	to be defined by the satellite operator	
	Reference frequency		
Transmit power / Power density	Output power		148 dBpW for angle < 40 degrees ;
	Antenna Gain		177 - 25 log f dBpW for 40 degrees < f < 75 degrees ;
	Radiated power	Not defined	130 dBpW for angle > 75 degrees ; angle: between the main beam axis and the direction considered
Channel access and occupation rules	Duty cycle		
	Access protocol		
	Trans. capacity	to be defined by the satellite operator	
Direction / Separation	to be defined by the satellite operator		
Authorisation regime			
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	ECC/DEC/(12)01 EN 301 444, EN 301 681		
Remarks	Coupled with 1555-1559 MHz		
Notification number	2013/32/L		
Equipment class	Class 1		Refer to sub-class 11 (2000/299/EC)

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Interface Regulations

Mobile Satellite Service

MSS Earth stations

Parameter	Description		Comment
Frequency band	1525 - 1544 MHz		
Radio Service	Mobile-Satellite (space-to-Earth) ----- Land Mobile-Satellite (space-to-Earth) -----		
Application	Satellite systems (civil) ----- MSS Earth stations -----		Low data rate LMES applications
Channel / modulation	Channel spacing	to be defined by the satellite operator	
	Designation of emission	to be defined by the satellite operator	
	Modulation / Occupied bandwidth	to be defined by the satellite operator	
	Reference frequency		
Transmit power / Power density	Output power		
	Antenna Gain		
	Radiated power	to be defined by the satellite operator	
Channel access and occupation rules	Duty cycle		
	Access protocol		
	Trans. capacity	to be defined by the satellite operator	
Direction / Separation	to be defined by the satellite operator		
Authorisation regime			
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	CEPT ECC DEC (12)01; CEPT ERC DEC (95)01 EN 301 426		
Remarks	Coupled with 1626.5-1645.5 MHz		
Notification number	2007/351/L		
Equipment class	Class 1		Refer to sub-class 16 (2000/299/EC)

Normative in accordance to the **TCAM RIG II** templateInformative in accordance to the **TCAM RIG II** template

Interface Regulations

Mobile Satellite Service

MSS Earth stations

Parameter	Description		Comment
Frequency band	1626.5 - 1645.5 MHz		
Radio Service	Mobile-Satellite (Earth-to-space) ----- Land Mobile-Satellite (Earth-to-space) -----		
Application	Satellite systems (civil) ----- MSS Earth stations -----		Low data rate LMES applications
Channel / modulation	Channel spacing	to be defined by the satellite operator	
	Designation of emission	to be defined by the satellite operator	
	Modulation / Occupied bandwidth	to be defined by the satellite operator	
	Reference frequency		
Transmit power / Power density	Output power		
	Antenna Gain		
	Radiated power	to be defined by the satellite operator	
Channel access and occupation rules	Duty cycle		
	Access protocol		
	Trans. capacity	to be defined by the satellite operator	
Direction / Separation	to be defined by the satellite operator		
Authorisation regime			
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	CEPT ECC DEC (12)01 EN 301 426		
Remarks	Coupled with 1525-1544 MHz		
Notification number	2007/351/L		
Equipment class	Class 1		Refer to sub-class 16 (2000/299/EC)

Normative in accordance to the **TCAM RIG II** templateInformative in accordance to the **TCAM RIG II** template

Interface Regulations

Mobile Satellite Service

MSS Earth stations

Parameter	Description		Comment
Frequency band	1555 - 1559 MHz		
Radio Service	Mobile-Satellite (space-to-Earth) ----- Land Mobile-Satellite (space-to-Earth) -----		
Application	Satellite systems (civil) ----- MSS Earth stations -----		Low data rate LMES applications
Channel / modulation	Channel spacing	to be defined by the satellite operator	
	Designation of emission		
	Modulation / Occupied bandwidth	to be defined by the satellite operator	
	Reference frequency		
Transmit power / Power density	Output power		
	Antenna Gain		
	Radiated power	to be defined by the satellite operator	
Channel access and occupation rules	Duty cycle		
	Access protocol		
	Trans. capacity	to be defined by the satellite operator	
Direction / Separation	to be defined by the satellite operator		
Authorisation regime			
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	CEPT ECC DEC (12)01 EN 301 426		
Remarks	Coupled with 1656.5-1660.5 MHz		
Notification number	2007/351/L		
Equipment class	Class 1		Refer to sub-class 16 (2000/299/EC)

Normative in accordance to the **TCAM RIG II** templateInformative in accordance to the **TCAM RIG II** template

Interface Regulations

Mobile Satellite Service

MSS Earth stations

Parameter	Description		Comment
Frequency band	1656.5 - 1660.5 MHz		
Radio Service	Mobile-Satellite (Earth-to-space) Land Mobile-Satellite (Earth-to-space)		
Application	Satellite systems (civil) MSS Earth stations		Low data rate LMES applications
Channel / modulation	Channel spacing	to be defined by the satellite operator	
	Designation of emission		
	Modulation / Occupied bandwidth	to be defined by the satellite operator	
	Reference frequency		
Transmit power / Power density	Output power		
	Antenna Gain		
	Radiated power	to be defined by the satellite operator	
Channel access and occupation rules	Duty cycle		
	Access protocol		
	Trans. capacity	to be defined by the satellite operator	
Direction / Separation	to be defined by the satellite operator		
Authorisation regime			
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	ECC DEC (12)01 EN 301 426		
Remarks	Coupled with 1555-1559 MHz		
Notification number	2007/351/L		
Equipment class	Class 1		Refer to sub-class 16 (2000/299/EC)

Normative in accordance to the **TCAM RIG II** templateInformative in accordance to the **TCAM RIG II** template

Interface Regulations

Mobile Satellite Service

MSS Earth stations

Parameter	Description		Comment
Frequency band	1525 - 1544 MHz		
Radio Service	Mobile-Satellite (space-to-Earth) ----- Land Mobile-Satellite (space-to-Earth) -----		
Application	Satellite systems (civil) ----- MSS Earth stations -----		Mobile Earth stations (MESs) of Geostationary mobile satellite systems, including handheld earth stations for Satellite Personal Communications Networks (S-PCN)
Channel / modulation	Channel spacing	to be defined by the satellite operator	
	Designation of emission	to be defined by the satellite operator	
	Modulation / Occupied bandwidth	to be defined by the satellite operator	
	Reference frequency		
Transmit power / Power density	Output power		
	Antenna Gain		
	Radiated power	Not defined	
Channel access and occupation rules	Duty cycle		
	Access protocol		
	Trans. capacity	to be defined by the satellite operator	
Direction / Separation	to be defined by the satellite operator		
Authorisation regime			
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	CEPT ECC DEC (12)01; CEPT ERC DEC (95)01 EN 301 681		
Remarks	Coupled with 1626.5-1645.5 MHz		
Notification number	2007/351/L		
Equipment class	Class 2		

Normative in accordance to the **TCAM RIG II** templateInformative in accordance to the **TCAM RIG II** template

Interface Regulations

Mobile Satellite Service

MSS Earth stations

Parameter	Description		Comment
Frequency band	1626.5 - 1645.5 MHz		
Radio Service	<i>Mobile-Satellite (Earth-to-space)</i> <i>Land Mobile-Satellite (Earth-to-space)</i>		
Application	<i>Satellite systems (civil)</i> <i>MSS Earth stations</i>		Mobile Earth stations (MESs) of Geostationary mobile satellite systems, including handheld earth stations for Satellite Personal Communications Networks (S-PCN)
Channel / modulation	Channel spacing	<i>to be defined by the satellite operator</i>	
	Designation of emission	<i>to be defined by the satellite operator</i>	
	Modulation / Occupied bandwidth	<i>to be defined by the satellite operator</i>	
	Reference frequency		
Transmit power / Power density	Output power		
	Antenna Gain		
	Radiated power	<i>Not defined</i>	
Channel access and occupation rules	Duty cycle		
	Access protocol		
	Trans. capacity	<i>to be defined by the satellite operator</i>	
Direction / Separation	<i>to be defined by the satellite operator</i>		
Authorisation regime			
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	ECC DEC (12)01 EN 301 681		
Remarks	<i>Coupled with 1525-1544 MHz</i>		
Notification number	2007/351/L		
Equipment class	Class 2		

Normative in accordance to the **TCAM RIG II** templateInformative in accordance to the **TCAM RIG II** template

Interface Regulations

Mobile Satellite Service

MSS Earth stations

Parameter	Description		Comment
Frequency band	1545 - 1559 MHz		
Radio Service	Mobile-Satellite (space-to-Earth) ----- Land Mobile-Satellite (space-to-Earth) -----		
Application	Satellite systems (civil) ----- MSS Earth stations -----		Mobile Earth stations (MESs) of Geostationary mobile satellite systems, including handheld earth stations for Satellite Personal Communications Networks (S-PCN)
Channel / modulation	Channel spacing	to be defined by the satellite operator	
	Designation of emission	to be defined by the satellite operator	
	Modulation / Occupied bandwidth	to be defined by the satellite operator	
	Reference frequency		
Transmit power / Power density	Output power		
	Antenna Gain		
	Radiated power	Not defined	
Channel access and occupation rules	Duty cycle		
	Access protocol		
	Trans. capacity	to be defined by the satellite operator	
Direction / Separation	to be defined by the satellite operator		
Authorisation regime			
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	ECC DEC (12)01 EN 301 681		
Remarks	Coupled with 1646.5-1660.5 MHz		
Notification number	2007/351/L		
Equipment class	Class 2		

Normative in accordance to the **TCAM RIG II** templateInformative in accordance to the **TCAM RIG II** template

Interface Regulations

Mobile Satellite Service

MSS Earth stations

Parameter	Description		Comment
Frequency band	1646.5 - 1660.5 MHz		
Radio Service	<i>Mobile-Satellite (Earth-to-space)</i> <i>Land Mobile-Satellite (Earth-to-space)</i>		
Application	<i>Satellite systems (civil)</i> <i>MSS Earth stations</i>		Mobile Earth stations (MESs) of Geostationary mobile satellite systems, including handheld earth stations for Satellite Personal Communications Networks (S-PCN)
Channel / modulation	Channel spacing	<i>to be defined by the satellite operator</i>	
	Designation of emission	<i>to be defined by the satellite operator</i>	
	Modulation / Occupied bandwidth	<i>to be defined by the satellite operator</i>	
	Reference frequency		
Transmit power / Power density	Output power		
	Antenna Gain		
	Radiated power	<i>Not defined</i>	
Channel access and occupation rules	Duty cycle		
	Access protocol		
	Trans. capacity	<i>to be defined by the satellite operator</i>	
Direction / Separation	<i>to be defined by the satellite operator</i>		
Authorisation regime			
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	ECC DEC (12)01 EN 301 681		
Remarks	<i>Coupled with 1545-1559 MHz</i>		
Notification number	2007/351/L		
Equipment class	Class 2		

Normative in accordance to the **TCAM RIG II** templateInformative in accordance to the **TCAM RIG II** template

Interface Regulations

Mobile Satellite Service

MSS Earth stations

Parameter	Description		Comment
Frequency band	1610 - 1613.5 MHz		
Radio Service	Mobile-Satellite (Earth-to-space) ----- Land Mobile-Satellite (Earth-to-space) -----		
Application	Satellite systems (civil) ----- MSS Earth stations ----- S-PCS		
Channel / modulation	Channel spacing	to be defined by the satellite operator	
	Designation of emission		
	Modulation / Occupied bandwidth	to be defined by the satellite operator	
	Reference frequency		
Transmit power / Power density	Output power	to be defined by the satellite operator	In this context, the mean is the mean over time whilst the MES is in the carrier-on mode
	Antenna Gain		
	Radiated power	-3 dB (W/4 kHz) (mean limit) -15 dB (W/4 kHz) (peak limit)	
Channel access and occupation rules	Duty cycle		
	Access protocol		
	Trans. capacity	to be defined by the satellite operator	
Direction / Separation	to be defined by the satellite operator		
Authorisation regime			
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	ECC/DEC/(12)01; CEPT ECC DEC (09)02 EN 301 441, EN 301 473		
Remarks	Coupled with 1613.8-2500 MHz		
Notification number	2013/32/L		
Equipment class	Class 1		Refer to sub-class 14 (2000/299/EC)

Normative in accordance to the **TCAM RIG II** templateInformative in accordance to the **TCAM RIG II** template

Interface Regulations

Mobile Satellite Service

MSS Earth stations

Parameter	Description		Comment
Frequency band	1613.8 - 2500 MHz		1613.8 - 1626.5 MHz & 2483.5 - 2500 MHz
Radio Service	Mobile-Satellite (space-to-Earth) ----- Land Mobile-Satellite (space-to-Earth) -----		
Application	Satellite systems (civil) ----- MSS Earth stations ----- S-PCS		
Channel / modulation	Channel spacing	to be defined by the satellite operator	
	Designation of emission		
	Modulation / Occupied bandwidth	to be defined by the satellite operator	
	Reference frequency		
Transmit power / Power density	Output power	to be defined by the satellite operator	In this context, the mean is the mean over time whilst the MES is in the carrier-on mode
	Antenna Gain		
	Radiated power	-3 dB (W/4 kHz) (mean limit) -15 dB (W/4 kHz) (peak limit)	
Channel access and occupation rules	Duty cycle		
	Access protocol		
	Trans. capacity	to be defined by the satellite operator	
Direction / Separation	to be defined by the satellite operator		
Authorisation regime			
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	ECC/DEC/(12)01; CEPT ECC DEC (09)02 EN 301 441, EN 301 473		
Remarks	Coupled with 1610-1613.5 MHz		
Notification number	2013/32/L		
Equipment class	Class 1		Refer to sub-class 14 (2000/299/EC)

Normative in accordance to the **TCAM RIG II** templateInformative in accordance to the **TCAM RIG II** template

Interface Regulations

Mobile Satellite Service

MSS Earth stations

Parameter	Description		Comment
Frequency band	1980 - 2010 MHz		Harmonised use of radio spectrum in the 2 GHz frequency bands for the implementation of systems providing mobile satellite services (2007/98/EC)
Radio Service	Mobile-Satellite (Earth-to-space) ----- Land Mobile-Satellite (Earth-to-space) -----		
Application	Satellite systems (civil) ----- MSS Earth stations ----- S-PCS		
Channel / modulation	Channel spacing	to be defined by the satellite operator	
	Designation of emission		
	Modulation / Occupied bandwidth	to be defined by the satellite operator	
	Reference frequency		
Transmit power / Power density	Output power	to be defined by the satellite operator	
	Antenna Gain		
	Radiated power	to be defined by the satellite operator	
Channel access and occupation rules	Duty cycle		
	Access protocol		
	Trans. capacity	to be defined by the satellite operator	
Direction / Separation	to be defined by the satellite operator		
Authorisation regime			
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	CEPT ECC DEC (12)01; Commission Decision 2007/98/EC; 2008/626/CE; 2009/449/CE; 2011/667/UE		EN301442, EN301473, EN302574;
Remarks	Coupled with 2170-2200 MHz		
Notification number	2013/32/L		
Equipment class	Class 1		Refer to sub-class 15 (2000/299/EC)

Normative in accordance to the **TCAM RIG II** templateInformative in accordance to the **TCAM RIG II** template

Interface Regulations

Mobile Satellite Service

MSS Earth stations

Parameter	Description		Comment
Frequency band	2170 - 2200 MHz		Harmonised use of radio spectrum in the 2 GHz frequency bands for the implementation of systems providing mobile satellite services (2007/98/EC)
Radio Service	Mobile-Satellite (space-to-Earth) ----- Land Mobile-Satellite (space-to-Earth) -----		
Application	Satellite systems (civil) ----- MSS Earth stations ----- S-PCS		
Channel / modulation	Channel spacing	to be defined by the satellite operator	
	Designation of emission		
	Modulation / Occupied bandwidth	to be defined by the satellite operator	
	Reference frequency		
Transmit power / Power density	Output power	to be defined by the satellite operator	
	Antenna Gain		
	Radiated power	to be defined by the satellite operator	
Channel access and occupation rules	Duty cycle		
	Access protocol		
	Trans. capacity	to be defined by the satellite operator	
Direction / Separation	to be defined by the satellite operator		
Authorisation regime			
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	CEPT ECC DEC (12)01 Commission Decision 2007/98/EC; 2008/626/CE; 2009/449/CE; 2011/667/UE		EN301442, EN301473, EN302574;
Remarks	Coupled with 1980-2010 MHz		
Notification number	2013/32/L		
Equipment class	Class 1		Refer to sub-class 15 (2000/299/EC)

Normative in accordance to the **TCAM RIG II** templateInformative in accordance to the **TCAM RIG II** template

Interface Regulations

Mobile Satellite Service

MSS Earth stations

Parameter	Description		Comment
Frequency band	10700 - 12750 MHz		10.7 - 11.7 GHz & 12.5 - 12.75 GHz
Radio Service	Mobile-Satellite (space-to-Earth) ----- Land Mobile-Satellite (space-to-Earth) -----		
Application	Satellite systems (civil) ----- MSS Earth stations -----		
Channel / modulation	Channel spacing	to be defined by the satellite operator	
	Designation of emission		
	Modulation / Occupied bandwidth	to be defined by the satellite operator	
	Reference frequency		
Transmit power / Power density	Output power	to be defined by the satellite operator	
	Antenna Gain		
	Radiated power	Refer to sub-class 12 (2000/299/EC)	
Channel access and occupation rules	Duty cycle		
	Access protocol		
	Trans. capacity	to be defined by the satellite operator	
Direction / Separation	to be defined by the satellite operator		
Authorisation regime			
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	ERC/DEC/(98)15 EN 301 427		
Remarks	Coupled with 14-14.25 GHz		
Notification number	2013/32/L		
Equipment class	Class 1		Refer to sub-class 12 (2000/299/EC)

Normative in accordance to the **TCAM RIG II** templateInformative in accordance to the **TCAM RIG II** template

Interface Regulations

Mobile Satellite Service

MSS Earth stations

Parameter	Description		Comment
Frequency band	14000 - 14250 MHz		
Radio Service	<i>Mobile-Satellite (Earth-to-space)</i> <i>Land Mobile-Satellite (Earth-to-space)</i>		
Application	<i>Satellite systems (civil)</i> <i>MSS Earth stations</i>		
Channel / modulation	Channel spacing	<i>to be defined by the satellite operator</i>	
	Designation of emission		
	Modulation / Occupied bandwidth	<i>to be defined by the satellite operator</i>	
	Reference frequency		
Transmit power / Power density	Output power	<i>to be defined by the satellite operator</i>	
	Antenna Gain		
	Radiated power	<i>Refer to sub-class 12 (2000/299/EC)</i>	
Channel access and occupation rules	Duty cycle		
	Access protocol		
	Trans. capacity	<i>to be defined by the satellite operator</i>	
Direction / Separation	<i>to be defined by the satellite operator</i>		
Authorisation regime			
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	<i>ERC/DEC/(98)15</i> <i>EN 301 427</i>		
Remarks	<i>Coupled with 10.7-12.75 GHz</i>		
Notification number	<i>2013/32/L</i>		
Equipment class	<i>Class 1</i>		<i>Refer to sub-class 12 (2000/299/EC)</i>

Normative in accordance to the **TCAM RIG II** templateInformative in accordance to the **TCAM RIG II** template

Interface Regulations

Mobile Satellite Service

MSS Earth stations

Parameter	Description		Comment
Frequency band	19700 - 20200 MHz		
Radio Service	Mobile-Satellite (space-to-Earth) ----- Land Mobile-Satellite (space-to-Earth) -----		
Application	Satellite systems (civil) ----- MSS Earth stations -----		
Channel / modulation	Channel spacing	to be defined by the satellite operator	
	Designation of emission	to be defined by the satellite operator	
	Modulation / Occupied bandwidth	to be defined by the satellite operator	
	Reference frequency		
Transmit power / Power density	Output power		
	Antenna Gain		
	Radiated power	Not defined	
Channel access and occupation rules	Duty cycle		
	Access protocol		
	Trans. capacity	to be defined by the satellite operator	
Direction / Separation	to be defined by the satellite operator		
Authorisation regime			
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	EN 301 360; EN 301 459		
Remarks			
Notification number	2007/351/L		
Equipment class	Class 2		

Normative in accordance to the **TCAM RIG II** templateInformative in accordance to the **TCAM RIG II** template

Interface Regulations

Mobile Satellite Service

MSS Earth stations

Parameter	Description		Comment
Frequency band	29500 - 30000 MHz		
Radio Service	<i>Mobile-Satellite (Earth-to-space)</i> <i>Land Mobile-Satellite (Earth-to-space)</i>		
Application	<i>Satellite systems (civil)</i> <i>MSS Earth stations</i>		
Channel / modulation	Channel spacing	<i>to be defined by the satellite operator</i>	
	Designation of emission	<i>to be defined by the satellite operator</i>	
	Modulation / Occupied bandwidth	<i>to be defined by the satellite operator</i>	
	Reference frequency	<i>to be defined by the satellite operator</i>	
Transmit power / Power density	Output power		
	Antenna Gain		
	Radiated power	<i>Not defined</i>	
Channel access and occupation rules	Duty cycle		
	Access protocol		
	Trans. capacity	<i>to be defined by the satellite operator</i>	
Direction / Separation	<i>to be defined by the satellite operator</i>		
Authorisation regime			
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	EN 301 459		
Remarks			
Notification number	2007/351/L		
Equipment class	Class 2		

Normative in accordance to the **TCAM RIG II** templateInformative in accordance to the **TCAM RIG II** template

Interface Regulations

Mobile Satellite Service

COSPAS-SARSAT

Parameter	Description		Comment
Frequency band	406 - 406.1 MHz		
Radio Service	Mobile-Satellite		
Application	Satellite systems (civil)		COSPAS SARSAT regrouping: Emergency Position Indicating Radio Beacons (EPIRB) Emergency Locator Transmitter (ELT) Personal Locator Beacons (PLB)
Channel / modulation	Channel spacing		
	Designation of emission		
	Modulation / Occupied bandwidth	Phase modulation of $\pm(1.1)$ radians peak	
	Reference frequency	406.025 MHz $\pm$ 0.005 MHz	
Transmit power / Power density	Output power		
	Antenna Gain		
	Radiated power	5 W e.i.r.p. $\pm$ 2 dB	
Channel access and occupation rules	Duty cycle		
	Access protocol		
	Trans. capacity	400 bps	
Direction / Separation			
Authorisation regime	For ELT and EPIRB individual license required.		
Add. essential requirements	Decision 2005/631/EC Decision 2013/638/EU		
Freq. planning assumption			
Planned changes			
Reference	EN 300 066 (EPIRB) EN 302 152 (PLB)		
Remarks	Usage of ELT and EPIRB		In case of ELT and EPIRB, these equipments should only be operated by a person who is holder of a valid operator certificate. PLB's are for the time being not supported on the territory of Luxembourg. Beacon owners who wish to register their beacons should do this on the site https://www.406registration.com .
Notification number	2009/0375/L		
Equipment class	Class 2		

Normative in accordance to the **TCAM RIG II** templateInformative in accordance to the **TCAM RIG II** template

Interface Regulations

Mobile Satellite Service

Non-voice transmit-only Mobile Earth Stations

Parameter	Description		Comment
Frequency band	1613.8 - 1626.5 MHz		
Radio Service	Mobile-Satellite (Earth-to-space)		
Application	Satellite systems (civil) MSS Earth stations		Non-voice transmit-only Mobile Earth Stations.
Channel / modulation	Channel spacing		
	Designation of emission		
	Modulation / Occupied bandwidth		
	Reference frequency		
Transmit power / Power density	Output power		The equipment shall operate in accordance with the provisions of footnote 5.364 of the Radio Regulations and the level of unwanted emissions shall not exceed the limits specified in the Table 1 of Annex 1 of ITU-Recommendation M-1343-1.
	Antenna Gain		
	Radiated power	Max. 30 dBm EIRP	
Channel access and occupation rules	Duty cycle	Max. 1%	The duty cycle is defined as the ratio, expressed as a percentage, of the maximum transmitter ON time on one carrier frequency, relative to a one hour period.
	Access protocol		
	Trans. capacity		
Direction / Separation			
Authorisation regime	Exempt from individual licensing.		
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	CEPT ECC DEC (09)04 EN 301 426; EN 301 441; EN 301 473		
Remarks			
Notification number	2011/547/L		
Equipment class	Class 2		

Normative in accordance to the **TCAM RIG II** templateInformative in accordance to the **TCAM RIG II** template

Interface Regulations

Radiodetermination Satellite Service

GNSS Repeaters

Parameter	Description		Comment
Frequency band	1164 - 1300 MHz		
Radio Service	<i>Radiodetermination-Satellite</i> <i>Radionavigation-Satellite</i>		
Application	<i>Satellite systems (civil)</i> <i>Satellite navigation systems</i>		Concerns GNSS-Repeaters
Channel / modulation	Channel spacing		
	Designation of emission		
	Modulation / Occupied bandwidth		
	Reference frequency		
Transmit power / Power density	Output power		Conditions of annex 1 of ECC/REC/(10)02 shall be respected.
	Antenna Gain		
	Radiated power		
Channel access and occupation rules	Duty cycle		
	Access protocol		
	Trans. capacity		
Direction / Separation			
Authorisation regime	Individual license required.		
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	ECC/REC/(10)02 EN 302 645		
Remarks			
Notification number	2011/466/L		
Equipment class			



Normative in accordance to the **TCAM RIG II** template



Informative in accordance to the **TCAM RIG II** template

Interface Regulations

Radiodetermination Satellite Service

GNSS Repeaters

Parameter	Description		Comment
Frequency band	1559 - 1610 MHz		
Radio Service	<i>Radiodetermination-Satellite</i> <i>Radionavigation-Satellite</i>		
Application	<i>Satellite systems (civil)</i> <i>Satellite navigation systems</i>		Concerns GNSS-Repeaters
Channel / modulation	Channel spacing		
	Designation of emission		
	Modulation / Occupied bandwidth		
	Reference frequency		
Transmit power / Power density	Output power		Conditions of annex 1 of ECC/REC/(10)02 shall be respected.
	Antenna Gain		
	Radiated power		
Channel access and occupation rules	Duty cycle		
	Access protocol		
	Trans. capacity		
Direction / Separation			
Authorisation regime	Individual license required.		
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	ECC/REC/(10)02 EN 302 645		
Remarks			
Notification number	2011/466/L		
Equipment class			



Normative in accordance to the **TCAM RIG II** template



Informative in accordance to the **TCAM RIG II** template

Interface Regulations

Broadcasting

Sound analogue

Parameter	Description		Comment
Frequency band	0.1485 - 0.255 MHz		
Radio Service	Broadcasting		
Application	Broadcasting Broadcasting (terrestrial) AM sound analogue		
Channel / modulation	Channel spacing		
	Designation of emission	9K00A3EGN	
	Modulation / Occupied bandwidth	AM	
	Reference frequency		
Transmit power / Power density	Output power		
	Antenna Gain		e.r.p. will be defined during licensing procedure
	Radiated power	Not defined	
Channel access and occupation rules	Duty cycle	Not applicable	
	Access protocol	Not applicable	
	Trans. capacity	Not applicable	
Direction / Separation	Not applicable		
Authorisation regime	Individual licensing		
Add. essential requirements			
Freq. planning assumption	GE 75 Agreement		
Planned changes			
Reference	EN 302 017		
Remarks			
Notification number	2007/351/L		
Equipment class	Class 2		



Normative in accordance to the **TCAM RIG II** template



Informative in accordance to the **TCAM RIG II** template

Interface Regulations

Broadcasting

Sound analogue

Parameter	Description		Comment
Frequency band	0.5265 - 1.6065 MHz		
Radio Service	Broadcasting		
Application	Broadcasting Broadcasting (terrestrial) AM sound analogue		
Channel / modulation	Channel spacing		
	Designation of emission	9K00A3EGN	
	Modulation / Occupied bandwidth	AM	
	Reference frequency		
Transmit power / Power density	Output power		
	Antenna Gain		e.r.p. will be defined during licensing procedure
	Radiated power	Not defined	
Channel access and occupation rules	Duty cycle	Not applicable	
	Access protocol	Not applicable	
	Trans. capacity	Not applicable	
Direction / Separation	Not applicable		
Authorisation regime	Individual licensing		
Add. essential requirements			
Freq. planning assumption	GE 75 Agreement		
Planned changes			
Reference	EN 302 017		
Remarks			
Notification number	2007/351/L		
Equipment class	Class 2		



Normative in accordance to the **TCAM RIG II** template



Informative in accordance to the **TCAM RIG II** template

Interface Regulations

Broadcasting

Sound analogue

Parameter	Description		Comment
Frequency band	87.5 - 108 MHz		
Radio Service	Broadcasting		
Application	Broadcasting Broadcasting (terrestrial) FM sound analogue		
Channel / modulation	Channel spacing	100 kHz	
	Designation of emission	180KF9EG; 300KF9EH	
	Modulation / Occupied bandwidth	FM	
	Reference frequency		
Transmit power / Power density	Output power		e.r.p. will be defined during licensing procedure
	Antenna Gain		
	Radiated power	Not defined	
Channel access and occupation rules	Duty cycle	Not applicable	
	Access protocol	Not applicable	
	Trans. capacity	Not applicable	
Direction / Separation	Not applicable		
Authorisation regime	Individual licensing		
Add. essential requirements			
Freq. planning assumption	GE 84 Agreement ITU-R B.S.412-9 ITU-R B.S.450-3		Pilot system
Planned changes			
Reference	EN 302 018 (ETS 300 384)		
Remarks			
Notification number	2007/351/L		
Equipment class	Class 2		

Normative in accordance to the **TCAM RIG II** templateInformative in accordance to the **TCAM RIG II** template

Interface Regulations

Broadcasting

Sound analogue

Parameter	Description		Comment
Frequency band	98.7 - 98.7 MHz		Only for temporary use during local events for transmission of event-related information.
Radio Service	Broadcasting		
Application	Broadcasting Broadcasting (terrestrial) FM sound analogue		
Channel / modulation	Channel spacing	100 kHz	
	Designation of emission	180KF9EG; 300KF9EH	
	Modulation / Occupied bandwidth	FM	
	Reference frequency		
Transmit power / Power density	Output power	Max. 1W	
	Antenna Gain		
	Radiated power	Not defined	
Channel access and occupation rules	Duty cycle	Not applicable	
	Access protocol	Not applicable	
	Trans. capacity	Not applicable	
Direction / Separation	Not applicable		
Authorisation regime	No licensing required, but notification to the ILR prior to putting into service.		
Add. essential requirements			
Freq. planning assumption	GE 84 Agreement ITU-R B.S.412-9 ITU-R B.S.450-3		Pilot system
Planned changes			
Reference	EN 302 018 (ETS 300 384)		
Remarks			
Notification number	2012/305/L		
Equipment class	Class 2		

Normative in accordance to the **TCAM RIG II** templateInformative in accordance to the **TCAM RIG II** template

Interface Regulations

Broadcasting

Sound analogue

Parameter	Description		Comment
Frequency band	99.5 - 99.5 MHz		Only for temporary use during local events for transmission of event-related information.
Radio Service	Broadcasting		
Application	Broadcasting Broadcasting (terrestrial) FM sound analogue		
Channel / modulation	Channel spacing	100 kHz	
	Designation of emission	180KF9EG; 300KF9EH	
	Modulation / Occupied bandwidth	FM	
	Reference frequency		
Transmit power / Power density	Output power	Max. 1W	
	Antenna Gain		
	Radiated power	Not defined	
Channel access and occupation rules	Duty cycle	Not applicable	
	Access protocol	Not applicable	
	Trans. capacity	Not applicable	
Direction / Separation	Not applicable		
Authorisation regime	No licensing required, but notification to the ILR prior to putting into service.		
Add. essential requirements			
Freq. planning assumption	GE 84 Agreement ITU-R B.S.412-9 ITU-R B.S.450-3		Pilot system
Planned changes			
Reference	EN 302 018 (ETS 300 384)		
Remarks			
Notification number	2012/305/L		
Equipment class	Class 2		

Normative in accordance to the **TCAM RIG II** templateInformative in accordance to the **TCAM RIG II** template

Interface Regulations

Broadcasting

Sound digital

Parameter	Description		Comment
Frequency band	0.1485 - 0.2835 MHz		
Radio Service	Broadcasting		
Application	Broadcasting Broadcasting (terrestrial) DRM		
Channel / modulation	Channel spacing	9 kHz	Under study
	Designation of emission	9K00A3E	
	Modulation / Occupied bandwidth	to be defined by the operator	
	Reference frequency		
Transmit power / Power density	Output power		e.r.p. will be defined during licensing procedure
	Antenna Gain		
	Radiated power	Not defined	
Channel access and occupation rules	Duty cycle	Not applicable	
	Access protocol	Not applicable	
	Trans. capacity	Not applicable	
Direction / Separation	Not applicable		
Authorisation regime	Individual licensing		
Add. essential requirements			
Freq. planning assumption	GE 75 Agreement		
Planned changes			
Reference	EN 302 245		
Remarks			
Notification number	2007/351/L		
Equipment class	Class 2		

Normative in accordance to the **TCAM RIG II** templateInformative in accordance to the **TCAM RIG II** template

Interface Regulations

Broadcasting

Sound digital

Parameter	Description		Comment
Frequency band	0.5265 - 1.6065 MHz		
Radio Service	Broadcasting		
Application	Broadcasting Broadcasting (terrestrial) DRM		
Channel / modulation	Channel spacing	9 kHz	Under study
	Designation of emission	9K00A3E	
	Modulation / Occupied bandwidth	to be defined by the operator	
	Reference frequency		
Transmit power / Power density	Output power		e.r.p. will be defined during licensing procedure
	Antenna Gain		
	Radiated power	Not defined	
Channel access and occupation rules	Duty cycle	Not applicable	
	Access protocol	Not applicable	
	Trans. capacity	Not applicable	
Direction / Separation	Not applicable		
Authorisation regime	Individual licensing		
Add. essential requirements			
Freq. planning assumption	GE 75 Agreement		
Planned changes			
Reference	EN 302 245		
Remarks			
Notification number	2007/351/L		
Equipment class	Class 2		

Normative in accordance to the **TCAM RIG II** templateInformative in accordance to the **TCAM RIG II** template

Interface Regulations

Broadcasting

Sound digital

Parameter	Description		Comment
Frequency band	3.95 - 4 MHz		
Radio Service	Broadcasting		
Application	Broadcasting Broadcasting (terrestrial) DRM		
Channel / modulation	Channel spacing	10 kHz	Under study
	Designation of emission	10K00A3E	
	Modulation / Occupied bandwidth	to be defined by the operator	
	Reference frequency		
Transmit power / Power density	Output power		e.r.p. will be defined during licensing procedure
	Antenna Gain		
	Radiated power	Not defined	
Channel access and occupation rules	Duty cycle	Not applicable	
	Access protocol	Not applicable	
	Trans. capacity	Not applicable	
Direction / Separation	Not defined		
Authorisation regime	Individual licensing		
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	EN 302 245		
Remarks			
Notification number	2007/351/L		
Equipment class	Class 2		



Normative in accordance to the **TCAM RIG II** template



Informative in accordance to the **TCAM RIG II** template

Interface Regulations

Broadcasting

Sound digital

Parameter	Description		Comment
Frequency band	5.9 - 6.2 MHz		
Radio Service	Broadcasting		
Application	Broadcasting Broadcasting (terrestrial) DRM		
Channel / modulation	Channel spacing	10 kHz	Under study
	Designation of emission	10K00A3E	
	Modulation / Occupied bandwidth	to be defined by the operator	
	Reference frequency		
Transmit power / Power density	Output power		e.r.p. will be defined during licensing procedure
	Antenna Gain		
	Radiated power	Not defined	
Channel access and occupation rules	Duty cycle	Not applicable	
	Access protocol	Not applicable	
	Trans. capacity	Not applicable	
Direction / Separation	Not applicable		
Authorisation regime	Individual licensing		
Add. essential requirements	RR Article 12		
Freq. planning assumption			
Planned changes			
Reference	EN 302 245		
Remarks			
Notification number	2007/351/L		
Equipment class	Class 2		

Normative in accordance to the **TCAM RIG II** templateInformative in accordance to the **TCAM RIG II** template

Interface Regulations

Broadcasting

Sound digital

Parameter	Description		Comment
Frequency band	7.2 - 7.4 MHz		
Radio Service	Broadcasting		
Application	Broadcasting Broadcasting (terrestrial) DRM		
Channel / modulation	Channel spacing	10 kHz	Under study
	Designation of emission	10K00A3E	
	Modulation / Occupied bandwidth	to be defined by the operator	
	Reference frequency		
Transmit power / Power density	Output power		e.r.p will be defined during licensing procedure
	Antenna Gain		
	Radiated power	Not defined	
Channel access and occupation rules	Duty cycle	Not applicable	
	Access protocol	Not applicable	
	Trans. capacity	Not applicable	
Direction / Separation	Not applicable		
Authorisation regime	Individual licensing		
Add. essential requirements			
Freq. planning assumption	RR Article 12		
Planned changes			
Reference	EN 302 245		
Remarks			
Notification number	2007/351/L		
Equipment class	Class 2		

Normative in accordance to the **TCAM RIG II** templateInformative in accordance to the **TCAM RIG II** template

Interface Regulations

Broadcasting

Sound digital

Parameter	Description		Comment
Frequency band	9.4 - 9.9 MHz		
Radio Service	Broadcasting		
Application	Broadcasting Broadcasting (terrestrial) DRM		
Channel / modulation	Channel spacing	10 kHz	Under study
	Designation of emission	10K00A3E	
	Modulation / Occupied bandwidth	to be defined by the operator	
	Reference frequency		
Transmit power / Power density	Output power		e.r.p. will be defined during licensing procedure
	Antenna Gain		
	Radiated power	Not defined	
Channel access and occupation rules	Duty cycle	Not applicable	
	Access protocol	Not applicable	
	Trans. capacity	Not applicable	
Direction / Separation	Not applicable		
Authorisation regime	Individual licensing		
Add. essential requirements			
Freq. planning assumption	RR Article 12		
Planned changes			
Reference	EN 302 245		
Remarks			
Notification number	2007/351/L		
Equipment class	Class 2		

Normative in accordance to the **TCAM RIG II** templateInformative in accordance to the **TCAM RIG II** template

Interface Regulations

Broadcasting

Sound digital

Parameter	Description		Comment
Frequency band	11.6 - 12.1 MHz		
Radio Service	Broadcasting		
Application	Broadcasting Broadcasting (terrestrial) DRM		
Channel / modulation	Channel spacing	10 kHz	Under study
	Designation of emission	10K00A3E	
	Modulation / Occupied bandwidth	to be defined by the operator	
	Reference frequency		
Transmit power / Power density	Output power		e.r.p. will be defined during licensing procedure
	Antenna Gain		
	Radiated power	Not defined	
Channel access and occupation rules	Duty cycle	Not applicable	
	Access protocol	Not applicable	
	Trans. capacity	Not applicable	
Direction / Separation	Not applicable		
Authorisation regime	Individual licensing		
Add. essential requirements			
Freq. planning assumption	RR Article 12		
Planned changes			
Reference	EN 302 245		
Remarks			
Notification number	2007/351/L		
Equipment class	Class 2		



Normative in accordance to the **TCAM RIG II** template



Informative in accordance to the **TCAM RIG II** template

Interface Regulations

Broadcasting

Sound digital

Parameter	Description		Comment
Frequency band	13.57 - 13.87 MHz		
Radio Service	Broadcasting		
Application	Broadcasting Broadcasting (terrestrial) DRM		
Channel / modulation	Channel spacing	10 kHz	Under study
	Designation of emission	10K00A3E	
	Modulation / Occupied bandwidth	to be defined by the operator	
	Reference frequency		
Transmit power / Power density	Output power		e.r.p. will be defined during licensing procedure
	Antenna Gain		
	Radiated power	Not defined	
Channel access and occupation rules	Duty cycle	Not applicable	
	Access protocol	Not applicable	
	Trans. capacity	Not applicable	
Direction / Separation	Not applicable		
Authorisation regime	Individual licensing		
Add. essential requirements			
Freq. planning assumption	RR Article 12		
Planned changes			
Reference	EN 302 245		
Remarks			
Notification number	2007/351/L		
Equipment class	Class 2		



Normative in accordance to the **TCAM RIG II** template



Informative in accordance to the **TCAM RIG II** template

Interface Regulations

Broadcasting

Sound digital

Parameter	Description		Comment
Frequency band	15.1 - 15.8 MHz		
Radio Service	Broadcasting		
Application	Broadcasting Broadcasting (terrestrial) DRM		
Channel / modulation	Channel spacing	10 kHz	Under study
	Designation of emission	10K00A3E	
	Modulation / Occupied bandwidth	to be defined by the operator	
	Reference frequency		
Transmit power / Power density	Output power		e.r.p. will be defined during licensing procedure
	Antenna Gain		
	Radiated power	Not defined	
Channel access and occupation rules	Duty cycle	Not applicable	
	Access protocol	Not applicable	
	Trans. capacity	Not applicable	
Direction / Separation	Not applicable		
Authorisation regime	Individual licensing		
Add. essential requirements			
Freq. planning assumption	RR Article 12		
Planned changes			
Reference	EN 302 245		
Remarks			
Notification number	2007/351/L		
Equipment class	Class 2		



Normative in accordance to the **TCAM RIG II** template



Informative in accordance to the **TCAM RIG II** template

Interface Regulations

Broadcasting

Sound digital

Parameter	Description		Comment
Frequency band	17.48 - 17.9 MHz		
Radio Service	Broadcasting		
Application	Broadcasting Broadcasting (terrestrial) DRM		
Channel / modulation	Channel spacing	10 kHz	Under Study
	Designation of emission	10K00A3E	
	Modulation / Occupied bandwidth	to be defined by the operator	
	Reference frequency		
Transmit power / Power density	Output power		e.r.p. will be defined during licensing procedure
	Antenna Gain		
	Radiated power	Not defined	
Channel access and occupation rules	Duty cycle	Not applicable	
	Access protocol	Not applicable	
	Trans. capacity	Not applicable	
Direction / Separation	Not applicable		
Authorisation regime	Individual licensing		
Add. essential requirements			
Freq. planning assumption	RR Article 12		
Planned changes			
Reference	EN 302 245		
Remarks			
Notification number	2007/351/L		
Equipment class	Class 2		



Normative in accordance to the **TCAM RIG II** template



Informative in accordance to the **TCAM RIG II** template

Interface Regulations

Broadcasting

Sound digital

Parameter	Description		Comment
Frequency band	18.9 - 19.02 MHz		
Radio Service	Broadcasting		
Application	Broadcasting Broadcasting (terrestrial) DRM		
Channel / modulation	Channel spacing	10 kHz	Under study
	Designation of emission	10K00A3E	
	Modulation / Occupied bandwidth	to be defined by the operator	
	Reference frequency		
Transmit power / Power density	Output power		e.r.p. will be defined during licensing procedure
	Antenna Gain		
	Radiated power	Not defined	
Channel access and occupation rules	Duty cycle	Not applicable	
	Access protocol	Not applicable	
	Trans. capacity	Not applicable	
Direction / Separation	Not applicable		
Authorisation regime	Individual licensing		
Add. essential requirements			
Freq. planning assumption	RR Article 12		
Planned changes			
Reference	EN 302 245		
Remarks			
Notification number	2007/351/L		
Equipment class	Class 2		

Normative in accordance to the **TCAM RIG II** templateInformative in accordance to the **TCAM RIG II** template

Interface Regulations

Broadcasting

Sound digital

Parameter	Description		Comment
Frequency band	21.45 - 21.85 MHz		
Radio Service	Broadcasting		
Application	Broadcasting Broadcasting (terrestrial) DRM		
Channel / modulation	Channel spacing	10 kHz	Under study
	Designation of emission	10K00A3E	
	Modulation / Occupied bandwidth	to be defined by the operator	
	Reference frequency		
Transmit power / Power density	Output power		e.r.p. will be defined during licensing procedure
	Antenna Gain		
	Radiated power	Not defined	
Channel access and occupation rules	Duty cycle	Not applicable	
	Access protocol	Not applicable	
	Trans. capacity	Not applicable	
Direction / Separation	Not applicable		
Authorisation regime	Individual licensing		
Add. essential requirements			
Freq. planning assumption	RR Artivle 12		
Planned changes			
Reference	EN 302 245		
Remarks			
Notification number	2007/351/L		
Equipment class	Class 2		

Normative in accordance to the **TCAM RIG II** templateInformative in accordance to the **TCAM RIG II** template

Interface Regulations

Broadcasting

Sound digital

Parameter	Description		Comment
Frequency band	25.67 - 26.1 MHz		
Radio Service	Broadcasting		
Application	Broadcasting Broadcasting (terrestrial) DRM		
Channel / modulation	Channel spacing	10 kHz	Under study
	Designation of emission	10K00A3E	
	Modulation / Occupied bandwidth	to be defined by the operator	
	Reference frequency		
Transmit power / Power density	Output power		e.r.p. will be defined during licensing procedure
	Antenna Gain		
	Radiated power	Not defined	
Channel access and occupation rules	Duty cycle	Not applicable	
	Access protocol	Not applicable	
	Trans. capacity	Not applicable	
Direction / Separation	Not applicable		
Authorisation regime	Individual licensing		
Add. essential requirements			
Freq. planning assumption	RR Article 12		
Planned changes			
Reference	EN 302 245		
Remarks			
Notification number	2007/351/L		
Equipment class	Class 2		

Normative in accordance to the **TCAM RIG II** templateInformative in accordance to the **TCAM RIG II** template

Interface Regulations

Broadcasting

Sound digital

Parameter	Description		Comment
Frequency band	174 - 230 MHz		
Radio Service	Broadcasting		
Application	Broadcasting Broadcasting (terrestrial) T-DAB		
Channel / modulation	Channel spacing	1.5 MHz	
	Designation of emission	1M50X7EEF	
	Modulation / Occupied bandwidth	to be defined by the operator	
	Reference frequency		
Transmit power / Power density	Output power		e.r.p. will be defined during licensing procedure
	Antenna Gain		
	Radiated power	Not defined	
Channel access and occupation rules	Duty cycle	Not applicable	
	Access protocol	Not applicable	
	Trans. capacity	Not applicable	
Direction / Separation	Not applicable		
Authorisation regime	Individual licensing		
Add. essential requirements			
Freq. planning assumption	GE 06 plan		
Planned changes			
Reference	EN 302 077		
Remarks			
Notification number	2007/351/L		
Equipment class	Class 2		

Normative in accordance to the **TCAM RIG II** templateInformative in accordance to the **TCAM RIG II** template

Interface Regulations

Broadcasting

TV digital

Parameter	Description		Comment
Frequency band	174 - 230 MHz		
Radio Service	Broadcasting		
Application	Broadcasting Broadcasting (terrestrial) DVB-T		
Channel / modulation	Channel spacing	7 MHz	
	Designation of emission	7M00X7FXF	
	Modulation / Occupied bandwidth	to be defined by the operator	
	Reference frequency		
Transmit power / Power density	Output power		e.r.p. will be defined during licensing procedure
	Antenna Gain		
	Radiated power	Not defined	
Channel access and occupation rules	Duty cycle	Not applicable	
	Access protocol	Not applicable	
	Trans. capacity	Not applicable	
Direction / Separation	Not applicable		
Authorisation regime	Individual licensing		
Add. essential requirements			
Freq. planning assumption	GE 06 plan		
Planned changes			
Reference	EN 300 744, EN 302 296		
Remarks			
Notification number	2007/351/L		
Equipment class	Class 2		

Normative in accordance to the **TCAM RIG II** templateInformative in accordance to the **TCAM RIG II** template

Interface Regulations

Broadcasting

TV digital

Parameter	Description		Comment
Frequency band	470 - 790 MHz		
Radio Service	Broadcasting		
Application	Broadcasting Broadcasting (terrestrial) DVB-T		
Channel / modulation	Channel spacing	8 MHz	
	Designation of emission	8M00X7FXF	
	Modulation / Occupied bandwidth	to be defined by the operator	
	Reference frequency		
Transmit power / Power density	Output power		e.r.p. will be defined during licensing procedure
	Antenna Gain		
	Radiated power	Not defined	
Channel access and occupation rules	Duty cycle	Not applicable	
	Access protocol	Not applicable	
	Trans. capacity	Not applicable	
Direction / Separation	Not applicable		
Authorisation regime	Individual licensing		
Add. essential requirements			
Freq. planning assumption	GE 06 plan		
Planned changes			
Reference	EN 300 744; EN 302 296		
Remarks			
Notification number	2010/708/L		
Equipment class	Class 2		

Normative in accordance to the **TCAM RIG II** templateInformative in accordance to the **TCAM RIG II** template

Interface Regulations

PMR

Parameter	Description		Comment
Frequency band	68 - 74.8 MHz		
Radio Service	<i>Mobile</i> <i>Land Mobile</i>		
Application	<i>Land mobile</i> <i>PMR/PAMR</i>		
Channel / modulation	Channel spacing	6.25 kHz; 12.5 kHz; 20 kHz; 25 kHz	
	Designation of emission		
	Modulation / Occupied bandwidth		
	Reference frequency		
Transmit power / Power density	Output power	<i>e.r.p. will be defined during licensing procedure</i>	
	Antenna Gain		
	Radiated power	<i>Not defined</i>	
Channel access and occupation rules	Duty cycle	<i>Not defined</i>	<i>Access protocoll EN 300 471 or equal specification only mandatory if data transmission is used.</i>
	Access protocol	<i>EN 300 471</i>	
	Trans. capacity	<i>Not defined</i>	
Direction / Separation	9.8 MHz		
Authorisation regime	<i>Individual licensing</i>		
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	<i>EN 300 086; EN 300 113; EN 300 471; EN 300 219; EN 300 296; EN 300 341; EN 300 390; EN 301 166</i>		
Remarks			
Notification number	<i>2013/632/L</i>		
Equipment class	<i>Class 2</i>		

Normative in accordance to the **TCAM RIG II** templateInformative in accordance to the **TCAM RIG II** template

Interface Regulations

PMR

Parameter	Description		Comment
Frequency band	75.2 - 87.5 MHz		
Radio Service	<i>Mobile</i> <i>Land Mobile</i>		
Application	<i>Land mobile</i> <i>PMR/PAMR</i>		
Channel / modulation	Channel spacing	6.25 kHz; 12.5 kHz; 20 kHz; 25 kHz	
	Designation of emission		
	Modulation / Occupied bandwidth		
	Reference frequency		
Transmit power / Power density	Output power	<i>e.r.p. will be defined during licensing procedure</i>	
	Antenna Gain		
	Radiated power	<i>Not defined</i>	
Channel access and occupation rules	Duty cycle	<i>Not defined</i>	<i>Access protocol EN 300 471 or equal specification only mandatory if data transmission is used.</i>
	Access protocol	<i>EN 300 471</i>	
	Trans. capacity	<i>Not defined</i>	
Direction / Separation	9.8 MHz		<i>Part of the band is simplex</i>
Authorisation regime	<i>Individual licensing</i>		
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	<i>EN 300 086; EN 300 113; EN 300 471; EN 300 219; EN 300 296; EN 300 341; EN 300 390; EN 301 166</i>		
Remarks			
Notification number	<i>2013/632/L</i>		
Equipment class	<i>Class 2</i>		

Normative in accordance to the **TCAM RIG II** templateInformative in accordance to the **TCAM RIG II** template

Interface Regulations

PMR

Parameter	Description		Comment
Frequency band	146 - 156.5125 MHz		
Radio Service	<i>Mobile</i> <i>Land Mobile</i>		
Application	<i>Land mobile</i> <i>PMR/PAMR</i>		
Channel / modulation	Channel spacing	6.25 kHz; 12.5 kHz; 20 kHz; 25 kHz	
	Designation of emission		
	Modulation / Occupied bandwidth		
	Reference frequency		
Transmit power / Power density	Output power	<i>e.r.p. will be defined during licensing procedure</i>	
	Antenna Gain		
	Radiated power	<i>Not defined</i>	
Channel access and occupation rules	Duty cycle	<i>Not defined</i>	<i>Access protocol EN 300 471 or equal specification only mandatory if data transmission is used.</i>
	Access protocol	<i>EN 300 471</i>	
	Trans. capacity	<i>Not defined</i>	
Direction / Separation	4.6 MHz		<i>Part of the band is simplex</i>
Authorisation regime	<i>Individual licensing</i>		
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	<i>EN 300 086; EN 300 113; EN 300 471; EN 300 219; EN 300 296; EN 300 341; EN 300 390; EN 301 166</i>		
Remarks			
Notification number	2013/632/L		
Equipment class	Class 2		

Normative in accordance to the **TCAM RIG II** templateInformative in accordance to the **TCAM RIG II** template

Interface Regulations

PMR

Parameter	Description		Comment
Frequency band	156.5375 - 156.7625 MHz		
Radio Service	<i>Mobile</i> <i>Land Mobile</i>		
Application	<i>Land mobile</i> <i>PMR/PAMR</i>		
Channel / modulation	Channel spacing	6.25 kHz; 12.5 kHz; 20 kHz; 25 kHz	
	Designation of emission		
	Modulation / Occupied bandwidth		
	Reference frequency		
Transmit power / Power density	Output power	<i>e.r.p. will be defined during licensing procedure</i>	
	Antenna Gain		
	Radiated power	<i>Not defined</i>	
Channel access and occupation rules	Duty cycle	<i>Not defined</i>	<i>Access protocol EN 300 471 or equal specification only mandatory if data transmission is used.</i>
	Access protocol	<i>EN 300 471</i>	
	Trans. capacity	<i>Not defined</i>	
Direction / Separation	4.6 MHz		
Authorisation regime	<i>Individual licensing</i>		
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	<i>EN 300 086; EN 300 113; EN 300 471; EN 300 219; EN 300 296; EN 300 341; EN 300 390; EN 301 166</i>		
Remarks			
Notification number	2013/632/L		
Equipment class	Class 2		

Normative in accordance to the **TCAM RIG II** templateInformative in accordance to the **TCAM RIG II** template

Interface Regulations

PMR

Parameter	Description		Comment
Frequency band	156.8375 - 169.4 MHz		
Radio Service	<i>Mobile</i> <i>Land Mobile</i>		
Application	<i>Land mobile</i> <i>PMR/PAMR</i>		
Channel / modulation	Channel spacing	6.25 kHz; 12.5 kHz, 20 kHz, 25 kHz	
	Designation of emission		
	Modulation / Occupied bandwidth		
	Reference frequency		
Transmit power / Power density	Output power	<i>e.r.p. will be defined during licensing procedure</i>	
	Antenna Gain		
	Radiated power	<i>Not defined</i>	
Channel access and occupation rules	Duty cycle	<i>Not defined</i>	<i>Access protocol EN 300 471 or equal specification only mandatory if data transmission is used.</i>
	Access protocol	<i>EN 300 471</i>	
	Trans. capacity	<i>Not defined</i>	
Direction / Separation	4.6 MHz		
Authorisation regime	<i>Individual licensing</i>		
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	<i>EN 300 086; EN 300 113; EN 300 471; EN 300 219; EN 300 296; EN 300 341; EN 300 390; EN 301 166</i>		
Remarks			
Notification number	2013/632/L		
Equipment class	Class 2		

Normative in accordance to the **TCAM RIG II** templateInformative in accordance to the **TCAM RIG II** template

Interface Regulations

PMR

Parameter	Description		Comment
Frequency band	169.825 - 174 MHz		
Radio Service	<i>Mobile</i> <i>Land Mobile</i>		
Application	<i>Land mobile</i> <i>PMR/PAMR</i>		
Channel / modulation	Channel spacing	6.25 kHz; 12.5 kHz, 20 kHz, 25 kHz	
	Designation of emission		
	Modulation / Occupied bandwidth		
	Reference frequency		
Transmit power / Power density	Output power	<i>e.r.p. will be defined during licensing procedure</i>	
	Antenna Gain		
	Radiated power	<i>Not defined</i>	
Channel access and occupation rules	Duty cycle	<i>Not defined</i>	<i>Access protocol EN 300 471 or equal specification only mandatory if data transmission is used.</i>
	Access protocol	<i>EN 300 471</i>	
	Trans. capacity	<i>Not defined</i>	
Direction / Separation	4.6 MHz		
Authorisation regime	<i>Individual licensing</i>		
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	<i>EN 300 086; EN 300 113; EN 300 471; EN 300 219; EN 300 296; EN 300 341; EN 300 390; EN 301 166</i>		
Remarks			
Notification number	2013/632/L		
Equipment class	Class 2		

Normative in accordance to the **TCAM RIG II** templateInformative in accordance to the **TCAM RIG II** template

Interface Regulations

PMR

Parameter	Description		Comment
Frequency band	384.75 - 385 MHz		
Radio Service	Mobile		
Application	Aeronautical Aeronautical communications AGA communications (civil)		Only digital trunking applications for emergency services.
Channel / modulation	Channel spacing	25 kHz	
	Designation of emission		
	Modulation / Occupied bandwidth	Digital; PI/4 DQPSK	
	Reference frequency		
Transmit power / Power density	Output power		
	Antenna Gain		
	Radiated power	Not defined	
Channel access and occupation rules	Duty cycle	Not defined	
	Access protocol		
	Trans. capacity		
Direction / Separation	10 MHz		Mobile transmit
Authorisation regime	Individual licensing		
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	EN 303 035; TBR 35; TR 102 459		
Remarks	Coupled with 394.75-395.0 MHz		
Notification number	2009/0375/L		
Equipment class	Class 2		

Normative in accordance to the **TCAM RIG II** templateInformative in accordance to the **TCAM RIG II** template

Interface Regulations

PMR

Parameter	Description		Comment
Frequency band	394.75 - 395 MHz		
Radio Service	Mobile		
Application	Aeronautical Aeronautical communications AGA communications (civil)		Only digital trunking applications for emergency services.
Channel / modulation	Channel spacing	25 kHz	
	Designation of emission		
	Modulation / Occupied bandwidth	Digital; PI/4 DQPSK	
	Reference frequency		
Transmit power / Power density	Output power		
	Antenna Gain		
	Radiated power	Not defined	
Channel access and occupation rules	Duty cycle	Not defined	
	Access protocol		
	Trans. capacity		
Direction / Separation	10 MHz		BS transmit
Authorisation regime	Individual licensing		
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	EN 303 035; TBR 35; TR 102 459		
Remarks	Coupled with 384.75-385.0 MHz		
Notification number	2009/0375/L		
Equipment class	Class 2		

Normative in accordance to the **TCAM RIG II** templateInformative in accordance to the **TCAM RIG II** template

Interface Regulations

PMR

Parameter	Description		Comment
Frequency band	380 - 385 MHz		
Radio Service	<i>Mobile</i> <i>Land Mobile</i>		
Application	<i>Land mobile</i> <i>PMR/PAMR</i> <i>TETRA</i>		Only digital trunking applications for emergency services. Network stations without DMO.
Channel / modulation	Channel spacing	6.25 kHz; 12.5 kHz; 20 kHz; 25 kHz; 50 kHz; 100 kHz; 150 kHz	
	Designation of emission		
	Modulation / Occupied bandwidth		
	Reference frequency		
Transmit power / Power density	Output power	30 W ; 10 W ; 3 W ; 1 W	e.r.p. will be defined during licensing procedure
	Antenna Gain		45 dBm (30W) Power class 1 40 dBm (10W) Power class 2 35 dBm (3W) Power class 3 30 dBm (1W) Power class 4
	Radiated power	Not defined	
Channel access and occupation rules	Duty cycle	Not defined	
	Access protocol	Not applicable	
	Trans. capacity		
Direction / Separation	10 MHz		Mobile station transmit.
Authorisation regime	Individual licensing		
Add. essential requirements			
Freq. planning assumption	ECC DEC(08)05		
Planned changes			
Reference	EN 301 166; EN 303 035; TBR 35; EN 302 561 ECC DEC(08)05		
Remarks	Coupled with 390-395 MHz		
Notification number	2014/450/L		
Equipment class	Class 1		Refer to sub-class 13 (Commission Decision 2000/29) 25 kHz channel spacing

Normative in accordance to the **TCAM RIG II** templateInformative in accordance to the **TCAM RIG II** template

Interface Regulations

PMR

Parameter	Description		Comment
Frequency band	390 - 395 MHz		
Radio Service	<i>Mobile</i> <i>Land Mobile</i>		
Application	<i>Land mobile</i> <i>PMR/PAMR</i> <i>TETRA</i>		Only digital trunking applications for emergency services. Network stations without DMO.
Channel / modulation	Channel spacing	6.25 kHz; 12.5 kHz; 20 kHz; 25 kHz; 50 kHz; 100 kHz; 150 kHz	
	Designation of emission		
	Modulation / Occupied bandwidth		
	Reference frequency		
Transmit power / Power density	Output power	30 W ; 10 W ; 3 W ; 1 W	e.r.p. will be defined during licensing procedure
	Antenna Gain		45 dBm (30W) Power class 1 40 dBm (10W) Power class 2 35 dBm (3W) Power class 3 30 dBm (1W) Power class 4
	Radiated power	Not defined	
Channel access and occupation rules	Duty cycle	Not defined	
	Access protocol	Not applicable	
	Trans. capacity		
Direction / Separation	10 MHz		BS transmit.
Authorisation regime	Individual licensing		
Add. essential requirements			
Freq. planning assumption	ECC DEC(08)05		
Planned changes			
Reference	EN 301 166; EN 303 035; TBR 35; EN 302 561 ECC DEC(08)05		
Remarks	Coupled with 380-385 MHz		
Notification number	2014/450/L		
Equipment class	Class 1		Refer to sub-class 13 (Commission Decision 2000/29) 25 kHz channel spacing

Normative in accordance to the **TCAM RIG II** templateInformative in accordance to the **TCAM RIG II** template

Interface Regulations

PMR

Parameter	Description		Comment
Frequency band	406.1 - 410 MHz		
Radio Service	<i>Mobile</i> <i>Mobile except aeronautical mobile</i>		
Application	<i>Land mobile</i> <i>PMR/PAMR</i> <i>PMR</i>		
Channel / modulation	Channel spacing	6.25 kHz; 12.5 kHz, 20 kHz, 25 kHz	
	Designation of emission		
	Modulation / Occupied bandwidth		
	Reference frequency		
Transmit power / Power density	Output power	<i>e.r.p. will be defined during licensing procedure</i>	
	Antenna Gain		
	Radiated power	<i>Not defined</i>	
Channel access and occupation rules	Duty cycle	<i>Not defined</i>	<i>Access protocol EN 300 471 or equal specification only mandatory if data transmission is used.</i>
	Access protocol	<i>EN 300 471</i>	
	Trans. capacity	<i>Not defined</i>	
Direction / Separation			
Authorisation regime	<i>Individual licensing</i>		
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	<i>EN 300-086; -113; -219; -296; -341; -390; -471;</i> <i>EN 301-166 and TS 102 361</i>		
Remarks			
Notification number	<i>2013/632/L</i>		
Equipment class	<i>Class 2</i>		

Normative in accordance to the **TCAM RIG II** templateInformative in accordance to the **TCAM RIG II** template

Interface Regulations

PMR

Parameter	Description		Comment
Frequency band	410 - 420 MHz		
Radio Service	<i>Mobile</i> <i>Land Mobile</i>		
Application	<i>Land mobile</i> <i>PMR/PAMR</i>		<i>Only trunking applications</i>
Channel / modulation	Channel spacing	<i>12.5 kHz; 25 kHz; 50 kHz; 100 kHz; 150 kHz</i>	
	Designation of emission		
	Modulation / Occupied bandwidth	<i>FM/Digital</i>	
	Reference frequency		
Transmit power / Power density	Output power	<i>e.r.p. will be defined during licensing procedure</i>	
	Antenna Gain		
	Radiated power	<i>Not defined</i>	
Channel access and occupation rules	Duty cycle	<i>Not defined</i>	
	Access protocol	<i>Not applicable</i>	
	Trans. capacity	<i>Not defined</i>	
Direction / Separation	<i>10 MHz</i>		<i>Mobile station transmit.</i>
Authorisation regime	<i>Individual licensing</i>		
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	<i>EN300086;EN300113;EN300219;EN300296;EN300341;EN300390;EN301166;EN303035;EN302561</i>		
Remarks	<i>Coupled with 420-430 MHz</i>		
Notification number	<i>2014/450/L</i>		
Equipment class	<i>Class 2</i>		

Normative in accordance to the **TCAM RIG II** templateInformative in accordance to the **TCAM RIG II** template

Interface Regulations

PMR

Parameter	Description		Comment
Frequency band	420 - 430 MHz		
Radio Service	<i>Mobile</i> <i>Land Mobile</i>		
Application	<i>Land mobile</i> <i>PMR/PAMR</i>		<i>Only trunking applications</i>
Channel / modulation	Channel spacing	12.5 kHz; 25 kHz; 50 kHz; 100 kHz; 150 kHz	
	Designation of emission		
	Modulation / Occupied bandwidth	FM/Digital	
	Reference frequency		
Transmit power / Power density	Output power	<i>e.r.p. will be defined during licensing procedure</i>	
	Antenna Gain		
	Radiated power	<i>Not defined</i>	
Channel access and occupation rules	Duty cycle	<i>Not defined</i>	
	Access protocol	<i>Not applicable</i>	
	Trans. capacity	<i>Not defined</i>	
Direction / Separation	10 MHz		<i>BS transmit</i>
Authorisation regime	<i>Individual licensing</i>		
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	<i>EN300086;EN300113;EN300219;EN300296;EN300341; EN300390;EN301166;EN303035;EN302561</i>		
Remarks	<i>Coupled with 410-420 MHz</i>		
Notification number	2014/450/L		
Equipment class	Class 2		

Normative in accordance to the **TCAM RIG II** templateInformative in accordance to the **TCAM RIG II** template

Interface Regulations

PMR

Parameter	Description		Comment
Frequency band	440 - 450 MHz		
Radio Service	<i>Mobile</i> <i>Land Mobile</i>		
Application	<i>Land mobile</i> <i>PMR/PAMR</i>		
Channel / modulation	Channel spacing	6.25 kHz; 12.5 kHz; 20 kHz; 25 kHz	
	Designation of emission		
	Modulation / Occupied bandwidth		
	Reference frequency		
Transmit power / Power density	Output power	<i>e.r.p. will be defined during licensing procedure</i>	
	Antenna Gain		
	Radiated power	<i>Not defined</i>	
Channel access and occupation rules	Duty cycle	<i>Not defined</i>	<i>Access protocol EN 300 471 or equal specification only mandatory if data transmission is used.</i>
	Access protocol	<i>EN 300 471</i>	
	Trans. capacity	<i>Not defined</i>	
Direction / Separation			
Authorisation regime	<i>Individual licensing</i>		
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	<i>EN 300-086; -113; -219; -296; -341; -390; -471;</i> <i>EN 301-166 and TS 102 361</i>		
Remarks			
Notification number	<i>2013/632/L</i>		
Equipment class	<i>Class 2</i>		

Normative in accordance to the **TCAM RIG II** templateInformative in accordance to the **TCAM RIG II** template

Interface Regulations

PMR

Parameter	Description		Comment
Frequency band	450 - 460 MHz		
Radio Service	<i>Mobile</i> <i>Land Mobile</i>		
Application	<i>Land mobile</i> <i>PMR/PAMR</i>		
Channel / modulation	Channel spacing	6.25 kHz; 12.5 kHz; 20 kHz; 25 kHz; 50kHz; 100kHz; 150kHz	
	Designation of emission		
	Modulation / Occupied bandwidth		
	Reference frequency		
Transmit power / Power density	Output power	<i>e.r.p. will be defined during licensing procedure</i>	
	Antenna Gain		
	Radiated power	<i>Not defined</i>	
Channel access and occupation rules	Duty cycle	<i>Not defined</i>	<i>Access protocol EN 300 471 or equal specification only mandatory if data transmission is used. Not applicable for trunking applications.</i>
	Access protocol	<i>EN 300 471 (see remark)</i>	
	Trans. capacity	<i>Not defined</i>	
Direction / Separation	10 MHz		<i>Mobile station transmit</i>
Authorisation regime	<i>Individual licensing</i>		
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	<i>EN 300-086; -113; -219; -296; -341; -390; -471; EN 301-166; TS 102 361; EN 302 561</i>		
Remarks			
Notification number	2014/450/L		
Equipment class	Class 2		

Normative in accordance to the **TCAM RIG II** templateInformative in accordance to the **TCAM RIG II** template

Interface Regulations

PMR

Parameter	Description		Comment
Frequency band	460 - 470 MHz		
Radio Service	<i>Mobile</i> <i>Land Mobile</i>		
Application	<i>Land mobile</i> <i>PMR/PAMR</i>		
Channel / modulation	Channel spacing	6.25 kHz; 12.5 kHz; 20 kHz; 25 kHz; 50 kHz, 100 kHz, 150 kHz	
	Designation of emission		
	Modulation / Occupied bandwidth		
	Reference frequency		
Transmit power / Power density	Output power	<i>e.r.p. will be defined during licensing procedure</i>	
	Antenna Gain		
	Radiated power	<i>Not defined</i>	
Channel access and occupation rules	Duty cycle	<i>Not defined</i>	<i>Access protocol EN 300 471 or equal specification only mandatory if data transmission is used. Not applicable for trunking applications.</i>
	Access protocol	<i>EN 300 471</i>	
	Trans. capacity	<i>Not defined</i>	
Direction / Separation	10 MHz		<i>Base station transmit</i>
Authorisation regime	<i>Individual licensing</i>		
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	<i>EN 300-086; -113; -219; -296; -341; -390; -471; EN 301-166; TS 102 361; EN 302 561</i>		
Remarks			
Notification number	2014/450/L		
Equipment class	Class 2		

Normative in accordance to the **TCAM RIG II** templateInformative in accordance to the **TCAM RIG II** template

Interface Regulations

PMR

Parameter	Description		Comment
Frequency band	450 - 460 MHz		
Radio Service	<i>Mobile</i> <i>Land Mobile</i>		
Application	<i>Land mobile</i> <i>PMR/PAMR</i> <i>TETRA</i>		
Channel / modulation	Channel spacing	25 kHz	
	Designation of emission		
	Modulation / Occupied bandwidth	Digital; PI/4 DQPSK	
	Reference frequency		
Transmit power / Power density	Output power	<i>e.r.p. will be defined during licensing procedure</i>	
	Antenna Gain		
	Radiated power	<i>Not defined</i>	
Channel access and occupation rules	Duty cycle	<i>Not defined</i>	
	Access protocol	<i>Not applicable</i>	
	Trans. capacity	<i>Not defined</i>	
Direction / Separation	10 MHz		<i>Mobile station transmit.</i>
Authorisation regime	<i>Individual licensing</i>		
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	<i>EN 303 035</i>		
Remarks	<i>Coupled with 460 - 470 MHz</i>		
Notification number	<i>2009/0375/L</i>		
Equipment class	<i>Class 2</i>		

Normative in accordance to the **TCAM RIG II** templateInformative in accordance to the **TCAM RIG II** template

Interface Regulations

PMR

Parameter	Description		Comment
Frequency band	460 - 470 MHz		
Radio Service	<i>Mobile</i> <i>Land Mobile</i>		
Application	<i>Land mobile</i> <i>PMR/PAMR</i> <i>TETRA</i>		
Channel / modulation	Channel spacing	25 kHz	
	Designation of emission		
	Modulation / Occupied bandwidth	Digital; PI/4 DQPSK	
	Reference frequency		
Transmit power / Power density	Output power	<i>e.r.p. will be defined during licensing procedure</i>	
	Antenna Gain		
	Radiated power	<i>Not defined</i>	
Channel access and occupation rules	Duty cycle	<i>Not defined</i>	
	Access protocol	<i>Not applicable</i>	
	Trans. capacity	<i>Not defined</i>	
Direction / Separation	10 MHz		<i>BS transmit</i>
Authorisation regime	<i>Individual licensing</i>		
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	<i>EN 303 035</i>		
Remarks	<i>Coupled with 450 - 460 MHz</i>		
Notification number	<i>2009/0375/L</i>		
Equipment class	<i>Class 2</i>		

Normative in accordance to the **TCAM RIG II** templateInformative in accordance to the **TCAM RIG II** template

Interface Regulations

PMR

PMR446

Parameter	Description		Comment
Frequency band	446 - 446.2 MHz		
Radio Service	Mobile		
	Land Mobile		
Application	Land mobile		
	PMR/PAMR		
	PMR 446		
Channel / modulation	Channel spacing	12.5 kHz	Lowest carrier frequency: 446.00625 MHz
	Designation of emission		
	Modulation / Occupied bandwidth	FM	
	Reference frequency		
Transmit power / Power density	Output power		Integral antenna only
	Antenna Gain		
	Radiated power	0.5 W e.r.p.	
Channel access and occupation rules	Duty cycle	Maximum Transmitter time-out: 180 s	
	Access protocol		
	Trans. capacity		
Direction / Separation	Not applicable		
Authorisation regime	Exempt from individual licensing		
Add. essential requirements			
Freq. planning assumption	ECC DEC (15)05		
Planned changes			
Reference	EN 300 296; EN 301 116 ECC DEC (15)05		
Remarks			
Notification number	2016/7/L		
Equipment class	Class 2		

Normative in accordance to the **TCAM RIG II** templateInformative in accordance to the **TCAM RIG II** template

Interface Regulations

PMR

PMR446 digital

Parameter	Description		Comment
Frequency band	446 - 446.2 MHz		
Radio Service	Mobile		446.0 – 446.1 MHz as of 1 January 2018
	Land Mobile		
Application	Land mobile		Digital PMR 446
	PMR/PAMR		
	PMR 446		
Channel / modulation	Channel spacing	6.25 or 12.5 kHz	Lowest carrier frequency: • 6.25 kHz channeling: 446.103125 MHz • 12.5 kHz channeling: 446.10625 MHz Lowest carrier frequency as of 1 January 2018: • 6.25 kHz channeling: 446.003125 MHz • 12.5 kHz channeling: 446.00625 MHz
	Designation of emission		
	Modulation / Occupied bandwidth		
	Reference frequency		
Transmit power / Power density	Output power		Integral antenna only
	Antenna Gain		
	Radiated power	0.5 W e.r.p.	
Channel access and occupation rules	Duty cycle	Maximum transmitter time-out : 180 s	
	Access protocol	Not applicable	
	Trans. capacity	Not applicable	
Direction / Separation	Not applicable		
Authorisation regime	Exempt from individual licensing		
Add. essential requirements			
Freq. planning assumption	ECC DEC (15)05		
Planned changes			
Reference	EN 300 113 or EN 301 166		
Remarks			
Notification number	2016/7/L		
Equipment class	Class 2		

Normative in accordance to the **TCAM RIG II** templateInformative in accordance to the **TCAM RIG II** template

Interface Regulations

UIC

Parameter	Description		Comment
Frequency band	457.4 - 458.3 MHz		
Radio Service	Mobile		
Application	Land mobile		Railway application
Channel / modulation	Channel spacing	6.25 kHz; 12.5 kHz; 20 kHz; 25 kHz	
	Designation of emission		
	Modulation / Occupied bandwidth	FM; PM	
	Reference frequency		
Transmit power / Power density	Output power		
	Antenna Gain		e.r.p. will be defined during licensing procedure
	Radiated power	Not defined	
Channel access and occupation rules	Duty cycle	Not defined	
	Access protocol		
	Trans. capacity	Not defined	
Direction / Separation	10 MHz		
Authorisation regime	Individual licensing		
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	EN 300 086; EN 300 113; EN 300 219; EN 300 296; EN 300 341; EN 300 390; EN 301 166		
Remarks	Coupled with 467.4 - 468.3 MHz		
Notification number	2005/0347/L		
Equipment class	Class 2		

Normative in accordance to the **TCAM RIG II** templateInformative in accordance to the **TCAM RIG II** template

Interface Regulations

UIC

Parameter	Description		Comment
Frequency band	467.4 - 468.3 MHz		
Radio Service	Mobile		
Application	Land mobile		Railway application
Channel / modulation	Channel spacing	6.25 kHz; 12.5 kHz; 20 kHz; 25 kHz	
	Designation of emission		
	Modulation / Occupied bandwidth	FM; PM	
	Reference frequency		
Transmit power / Power density	Output power		
	Antenna Gain		e.r.p. will be defined during licensing procedure
	Radiated power	Not defined	
Channel access and occupation rules	Duty cycle	Not defined	
	Access protocol		
	Trans. capacity	Not defined	
Direction / Separation	10 MHz		
Authorisation regime	Individual licencing		
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	EN 300 086; EN 300 113; EN 300 219; EN 300 296; EN 300 341; EN 300 390; EN 301 166		
Remarks	Coupled with 457.4 - 458.3 MHz		
Notification number	2005/0347/L		
Equipment class	Class 2		

Normative in accordance to the **TCAM RIG II** templateInformative in accordance to the **TCAM RIG II** template

Interface Regulations

Land mobile

Intelligent Transport Systems

Parameter	Description		Comment
Frequency band	5875 - 5905 MHz		
Radio Service	<i>Mobile</i> <i>Land Mobile</i>		
Application	<i>Land mobile</i> <i>ITS</i>		
Channel / modulation	Channel spacing Designation of emission Modulation / Occupied bandwidth Reference frequency		<i>Intelligent Transport Systems</i> <i>For traffic safety applications on a non-exclusive basis.</i>
Transmit power / Power density	Output power Antenna Gain Radiated power	 23 dBm/MHz eirp	<i>The total power shall not exceed 33 dBm eirp with a TPC range of 30 dB.</i>
Channel access and occupation rules	Duty cycle Access protocol Trans. capacity		
Direction / Separation			
Authorisation regime	<i>Exempt from individual licensing.</i>		
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	<i>Decision 2008/671/EC ;</i> <i>ECC DEC (08)01 ;</i> <i>ECC Report 101 ; ECC Report 228</i> <i>EN 302 571</i>		
Remarks			
Notification number	2011/466/L		
Equipment class	Class 2		

Normative in accordance to the **TCAM RIG II** templateInformative in accordance to the **TCAM RIG II** template

Interface Regulations

Land mobile

Intelligent Transport Systems

Parameter	Description		Comment
Frequency band	5905 - 5925 MHz		
Radio Service	Mobile		
	Land Mobile		
Application	Land mobile		
	ITS		
Channel / modulation	Channel spacing		Intelligent Transport Systems
	Designation of emission		
	Modulation / Occupied bandwidth		
	Reference frequency		
Transmit power / Power density	Output power		The total power shall not exceed 33 dBm eirp with a TPC range of 30 dB.
	Antenna Gain		
	Radiated power	23 dBm/MHz eirp	
Channel access and occupation rules	Duty cycle		
	Access protocol		
	Trans. capacity		
Direction / Separation			
Authorisation regime	Exempt from individual licensing.		
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	ECC DEC (08)01 ; ECC Report 101 ; ECC Report 228 EN 302 571		
Remarks			
Notification number	2011/466/L		
Equipment class	Class 2		

Normative in accordance to the **TCAM RIG II** templateInformative in accordance to the **TCAM RIG II** template

Interface Regulations

Land mobile

Intelligent Transport Systems

Parameter	Description		Comment
Frequency band	63 - 64 MHz		
Radio Service	Mobile		
	Land Mobile		
Application	Land mobile		
	ITS		
Channel / modulation	Channel spacing		Intelligent Transport Systems
	Designation of emission		
	Modulation / Occupied bandwidth		
	Reference frequency		
Transmit power / Power density	Output power		
	Antenna Gain		
	Radiated power	Max: 40 dBm eirp	
Channel access and occupation rules	Duty cycle		
	Access protocol		
	Trans. capacity		
Direction / Separation			
Authorisation regime	Exempt from individual licensing.		
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	ECC DEC (09)01 ; ECC Report 113 ; EN 302 686		
Remarks			
Notification number	2011/466/L		
Equipment class	Class 2		

Normative in accordance to the **TCAM RIG II** templateInformative in accordance to the **TCAM RIG II** template

Interface Regulations

Land mobile

Intelligent Transport Systems

Parameter	Description		Comment
Frequency band	5855 - 5875 MHz		
Radio Service	<i>Mobile</i> <i>Land Mobile</i>		
Application	<i>Land mobile</i> <i>ITS</i>		<i>for ITS non-safety applications</i>
Channel / modulation	Channel spacing		<i>Intelligent Transport Systems, non safety applications</i>
	Designation of emission		
	Modulation / Occupied bandwidth		
	Reference frequency		
Transmit power / Power density	Output power		<i>The total power shall not exceed 33 dBm eirp with a TPC range of 30 dB</i>
	Antenna Gain		
	Radiated power	<i>23 dBm/MHz eirp</i>	
Channel access and occupation rules	Duty cycle		
	Access protocol		
	Trans. capacity		
Direction / Separation			
Authorisation regime	<i>Exempt from individual licensing.</i>		
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	<i>ECC REC 08-01 ; ECC Report 101; ECC Report 228; EN 302 571</i>		
Remarks			
Notification number	<i>2016/7/L</i>		
Equipment class	<i>Class 2</i>		

Normative in accordance to the **TCAM RIG II** templateInformative in accordance to the **TCAM RIG II** template

Interface Regulations

Land mobile

Public Protection Disaster Relief

Parameter	Description		Comment
Frequency band	5150 - 5250 MHz		
Radio Service	<i>Mobile</i> <i>Land Mobile</i>		
Application	<i>Land mobile</i> <i>PPDR</i> <i>BBDR</i>		
Channel / modulation	Channel spacing		
	Designation of emission		
	Modulation / Occupied bandwidth		
	Reference frequency		
Transmit power / Power density	Output power		<i>BS: Base Station</i> <i>UE: User Equipment</i>
	Antenna Gain		
	Radiated power	26 dBm/MHz eirp (BS) 13 dBm/MHz eirp (UE)	
Channel access and occupation rules	Duty cycle		
	Access protocol		
	Trans. capacity		
Direction / Separation			
Authorisation regime			
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	<i>ECC REC (08)04</i> <i>EN 302 625</i>		
Remarks			
Notification number	2013/632/L		
Equipment class	Class 2		

Normative in accordance to the **TCAM RIG II** templateInformative in accordance to the **TCAM RIG II** template

Interface Regulations

Land mobile

Paging

Parameter	Description		Comment
Frequency band	455.825 - 455.9375 MHz		Following frequencies are not allocated to paging system : 455.850/465.850 455.8875/465.8875 MHz
Radio Service	Mobile		
	Land Mobile		
Application	Land mobile		
	Paging		
Channel / modulation	Channel spacing	12.5 kHz	
	Designation of emission		
	Modulation / Occupied bandwidth		
	Reference frequency		
Transmit power / Power density	Output power		
	Antenna Gain		
	Radiated power	Defined during licensing procedure	
Channel access and occupation rules	Duty cycle		
	Access protocol		
	Trans. capacity		
Direction / Separation	10 MHz		Mobile transmit
Authorisation regime	Individual licence required.		
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	EN 300 224		
Remarks	Coupled with 465.825-465.9375 MHz		
Notification number	2005/0347/L		
Equipment class	Class 2		

Normative in accordance to the **TCAM RIG II** templateInformative in accordance to the **TCAM RIG II** template

Interface Regulations

Land mobile

Paging

Parameter	Description		Comment
Frequency band	465.825 - 465.9375 MHz		Following frequencies are not allocated to paging system : 455.850/465.850 455.8875/465.8875 MHz
Radio Service	Mobile		
	Land Mobile		
Application	Land mobile		
	Paging		
Channel / modulation	Channel spacing	12.5 kHz	
	Designation of emission		
	Modulation / Occupied bandwidth		
	Reference frequency		
Transmit power / Power density	Output power		
	Antenna Gain		
	Radiated power	Defined during licensing procedure	
Channel access and occupation rules	Duty cycle		
	Access protocol		
	Trans. capacity		
Direction / Separation	10 MHz		Base station transmit
Authorisation regime	Individual licence required.		
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	EN 300 224		
Remarks	Coupled with 455.825-455.9375 MHz		
Notification number	2005/0347/L		
Equipment class	Class 2		

Normative in accordance to the **TCAM RIG II** templateInformative in accordance to the **TCAM RIG II** template

Interface Regulations

Land mobile

Paging

Parameter	Description		Comment
Frequency band	47 - 47.25 MHz		
Radio Service	<i>Mobile</i> <i>Land Mobile</i>		
Application	<i>Land mobile</i> <i>Paging</i>		
Channel / modulation	Channel spacing	12.5 kHz	
	Designation of emission		
	Modulation / Occupied bandwidth		
	Reference frequency		
Transmit power / Power density	Output power		
	Antenna Gain		
	Radiated power	Defined during licensing procedure	
Channel access and occupation rules	Duty cycle		
	Access protocol		
	Trans. capacity		
Direction / Separation			
Authorisation regime	Individual licence required.		
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	EN 300 224		
Remarks			
Notification number	2009/0375/L		
Equipment class	Class 2		

Normative in accordance to the **TCAM RIG II** templateInformative in accordance to the **TCAM RIG II** template

Interface Regulations

Other applications

CB

Parameter	Description		Comment
Frequency band	26.96 - 27.41 MHz		Excluding 26.995, 27.045, 27.095, 27.145 and 27.195 MHz
Radio Service	Mobile		
Application	Other CB radio DSB/SSB AM CB / CEPT PR 27		
Channel / modulation	Channel spacing	10 kHz	
	Designation of emission		
	Modulation / Occupied bandwidth	Angle modulated / DSB / SSB	
	Reference frequency		
Transmit power / Power density	Output power		4 Watt for angle modulation
	Antenna Gain		4 Watt RMS for DSB
	Radiated power	4 W/ 12 W	12 Watt PEP for SSB
Channel access and occupation rules	Duty cycle	Not applicable	
	Access protocol	Not applicable	
	Trans. capacity	Not applicable	
Direction / Separation	NA		
Authorisation regime	Exempt from individual licensing		
Add. essential requirements			
Freq. planning assumption	Intended for analogue speech.		Includes the possibility of data transmissions within the speech channel, where applicable.
Planned changes			
Reference	ECC/DEC/(11)03; EN 300 433		
Remarks			
Notification number	2011/466/L		
Equipment class	Class 2		



Normative in accordance to the **TCAM RIG II** template



Informative in accordance to the **TCAM RIG II** template

Interface Regulations

Other applications

Temporary Wireless Video Links

Parameter	Description		Comment
Frequency band	2010 - 2025 MHz		Commission Implementing Decision (EU) 2016/339 of 8 March 2016 on the harmonisation of the 2010-2025 MHz frequency band
Radio Service	Mobile ----- Land Mobile -----		
Application	Land mobile ----- PMSE -----		Temporary Wireless Video Links
Channel / modulation	Channel spacing		
	Designation of emission		
	Modulation / Occupied bandwidth		
	Reference frequency		
Transmit power / Power density	Output power		Cordless camera: -7 dBW e.i.r.p. Mobile video links: 10 dBW e.i.r.p. Portable video links: 16 dBW e.i.r.p.
	Antenna Gain		
	Radiated power	see comment	
Channel access and occupation rules	Duty cycle		
	Access protocol		
	Trans. capacity		
Direction / Separation	NA		
Authorisation regime	Individual licence, temporary use only		
Add. essential requirements			
Freq. planning assumption	Decision 2016/339/EU		
Planned changes			
Reference	Decision 2016/339/EU EN 302 064		
Remarks			
Notification number			
Equipment class	Class 2		

Normative in accordance to the **TCAM RIG II** templateInformative in accordance to the **TCAM RIG II** template

Interface Regulations

Other applications

Temporary Wireless Video Links

Parameter	Description		Comment
Frequency band	2245 - 2290 MHz		
Radio Service	<i>Mobile</i> <i>Land Mobile</i>		
Application	<i>Land mobile</i> <i>PMSE</i> <i>Cordless cameras</i>		<i>Temporary Wireless Video Links</i>
Channel / modulation	Channel spacing	5MHz, 10 MHz, 20 MHz	
	Designation of emission		
	Modulation / Occupied bandwidth		
	Reference frequency		
Transmit power / Power density	Output power		
	Antenna Gain		
	Radiated power	<i>Defined during licence procedure</i>	
Channel access and occupation rules	Duty cycle		
	Access protocol		
	Trans. capacity		
Direction / Separation	NA		
Authorisation regime	<i>Individual licence, temporary use only</i>		
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	EN 302 064		
Remarks			
Notification number			
Equipment class	Class 2		

Normative in accordance to the **TCAM RIG II** templateInformative in accordance to the **TCAM RIG II** template

Interface Regulations

Other applications

Temporary Wireless Video Links

Parameter	Description		Comment
Frequency band	2335 - 2395 MHz		
Radio Service	<i>Mobile</i> <i>Land Mobile</i>		
Application	<i>Land mobile</i> <i>PMSE</i> <i>Cordless cameras</i>		<i>Temporary Wireless Video Links</i>
Channel / modulation	Channel spacing	5MHz, 10 MHz, 20 MHz	
	Designation of emission		
	Modulation / Occupied bandwidth		
	Reference frequency		
Transmit power / Power density	Output power		
	Antenna Gain		
	Radiated power	<i>Defined during licence procedure</i>	
Channel access and occupation rules	Duty cycle		
	Access protocol		
	Trans. capacity		
Direction / Separation	NA		
Authorisation regime	<i>Individual licence, temporary use only</i>		
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	EN 302 064		
Remarks			
Notification number	2007/351/L		
Equipment class	Class 2		

Normative in accordance to the **TCAM RIG II** templateInformative in accordance to the **TCAM RIG II** template

Interface Regulations

Other applications

High power remote controls in PMR bands

Parameter	Description		Comment
Frequency band	146 - 174 MHz		
Radio Service	<i>Mobile</i> <i>Land Mobile</i>		
Application	<i>Land mobile</i> <i>Telemetry/Telecommand (civil)</i>		<i>Remote controls for example cranes, locomotives</i>
Channel / modulation	Channel spacing	12.5 / 20 / 25 kHz	
	Designation of emission		
	Modulation / Occupied bandwidth		
	Reference frequency		
Transmit power / Power density	Output power		
	Antenna Gain		
	Radiated power	500 mW erp	
Channel access and occupation rules	Duty cycle		
	Access protocol		
	Trans. capacity		
Direction / Separation			
Authorisation regime	<i>Individual licensing required</i>		
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	<i>EN 300 220</i>		
Remarks			
Notification number	2009/0375/L		
Equipment class	Class 2		

Normative in accordance to the **TCAM RIG II** templateInformative in accordance to the **TCAM RIG II** template

Interface Regulations

Other applications

High power remote controls in PMR bands

Parameter	Description		Comment
Frequency band	440 - 470 MHz		
Radio Service	<i>Mobile</i> <i>Land Mobile</i>		
Application	<i>Land mobile</i> <i>Telemetry/Telecommand (civil)</i>		<i>Remote controls for example cranes, locomotives</i>
Channel / modulation	Channel spacing	12.5 / 20 / 25 kHz	
	Designation of emission		
	Modulation / Occupied bandwidth		
	Reference frequency		
Transmit power / Power density	Output power		
	Antenna Gain		
	Radiated power	500 mW erp	
Channel access and occupation rules	Duty cycle		
	Access protocol		
	Trans. capacity		
Direction / Separation			
Authorisation regime	<i>Individual licensing required</i>		
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	<i>EN 300 220</i>		
Remarks			
Notification number	2009/0375/L		
Equipment class	Class 2		

Normative in accordance to the **TCAM RIG II** templateInformative in accordance to the **TCAM RIG II** template

Interface Regulations

Amateur

Amateur

Parameter	Description		Comment
Frequency band	0.1357 - 0.1378 MHz		
Radio Service	Amateur		
Application	Other Amateur		
Channel / modulation	Channel spacing		
	Designation of emission		
	Modulation / Occupied bandwidth		
	Reference frequency		
Transmit power / Power density	Output power		
	Antenna Gain		
	Radiated power	1W eirp	
Channel access and occupation rules	Duty cycle		
	Access protocol		
	Trans. capacity		
Direction / Separation			
Authorisation regime	Individual Licencing		
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	CEPT ERC REC62-01 EN 301 783		
Remarks	Equipment may be operated only by a person in possession of a radio operator's certificate		
Notification number	2007/351/L		
Equipment class	Class 2		

Normative in accordance to the **TCAM RIG II** templateInformative in accordance to the **TCAM RIG II** template

Interface Regulations

Amateur

Amateur

Parameter	Description		Comment
Frequency band	0.472 - 0.479 MHz		
Radio Service	Amateur		
Application	Other Amateur		Secondary service
Channel / modulation	Channel spacing		
	Designation of emission		
	Modulation / Occupied bandwidth		
	Reference frequency		
Transmit power / Power density	Output power		
	Antenna Gain		
	Radiated power	1W eirp	
Channel access and occupation rules	Duty cycle		
	Access protocol		
	Trans. capacity		
Direction / Separation			
Authorisation regime	Individual Licencing		
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	EN 301 783		
Remarks	Equipment may be operated only by a person in possession of a radio operator's certificate		
Notification number	2013/216/L		
Equipment class	Class 2		

Normative in accordance to the **TCAM RIG II** templateInformative in accordance to the **TCAM RIG II** template

Interface Regulations

Amateur

Amateur

Parameter	Description		Comment
Frequency band	1.81 - 1.85 MHz		
Radio Service	<i>Amateur</i> ----- ----- -----		1810 - 1830 kHz as secondary (1) 1830 - 1850 kHz as primary (2)
Application	<i>Other</i> ----- <i>Amateur</i> ----- -----		
Channel / modulation	Channel spacing	-----	
	Designation of emission	-----	
	Modulation / Occupied bandwidth	-----	
	Reference frequency	-----	
Transmit power / Power density	Output power	(2) : 1000W p.e.p.	If EIRP > 1000W then a special autorisation for the installation is mandatory
	Antenna Gain	-----	
	Radiated power	(1) : 10W eirp	
Channel access and occupation rules	Duty cycle	-----	
	Access protocol	-----	
	Trans. capacity	-----	
Direction / Separation			
Authorisation regime	Individual Licencing		
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	EN 301 783		
Remarks	Equipment may be operated only by a person in possession of a radio operator's certificate		
Notification number	2007/351/L		
Equipment class	Class 2		

Normative in accordance to the **TCAM RIG II** templateInformative in accordance to the **TCAM RIG II** template

Interface Regulations

Amateur

Amateur

Parameter	Description		Comment
Frequency band	1.85 - 2 MHz		
Radio Service	<i>Amateur</i> 		Secondary service
Application	<i>Other</i> <i>Amateur</i> 		
Channel / modulation	Channel spacing		
	Designation of emission		
	Modulation / Occupied bandwidth		
	Reference frequency		
Transmit power / Power density	Output power		
	Antenna Gain		
	Radiated power	10W e.r.p.	
Channel access and occupation rules	Duty cycle		
	Access protocol		
	Trans. capacity		
Direction / Separation			
Authorisation regime	Individual Licencing		
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	EN 301 783		
Remarks	Equipment may be operated only by a person in possession of a radio operator's certificate		
Notification number	2007/351/L		
Equipment class	Class 2		

Normative in accordance to the **TCAM RIG II** templateInformative in accordance to the **TCAM RIG II** template

Interface Regulations

Amateur

Amateur

Parameter	Description		Comment
Frequency band	3.5 - 3.8 MHz		
Radio Service	Amateur		
Application	Other Amateur		
Channel / modulation	Channel spacing		
	Designation of emission		
	Modulation / Occupied bandwidth		
	Reference frequency		
Transmit power / Power density	Output power	1000W p.e.p.	If EIRP > 1000W then a special autorisation for the installation is mandatory
	Antenna Gain		
	Radiated power		
Channel access and occupation rules	Duty cycle		
	Access protocol		
	Trans. capacity		
Direction / Separation			
Authorisation regime	Individual Licencing		
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	EN 301 783		
Remarks	Equipment may be operated only by a person in possession of a radio operator's certificate		
Notification number	2007/351/L		
Equipment class	Class 2		

Normative in accordance to the **TCAM RIG II** templateInformative in accordance to the **TCAM RIG II** template

Interface Regulations

Amateur

Amateur

Parameter	Description		Comment
Frequency band	5.3515 - 5.3665 MHz		
Radio Service	Amateur		
Application	Other Amateur		
Channel / modulation	Channel spacing		
	Designation of emission		
	Modulation / Occupied bandwidth		
	Reference frequency		
Transmit power / Power density	Output power		
	Antenna Gain		
	Radiated power	15W e.i.r.p.	
Channel access and occupation rules	Duty cycle		
	Access protocol		
	Trans. capacity		
Direction / Separation			
Authorisation regime	Individual Licencing		
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	EN 301 783		
Remarks	Equipment may be operated only by a person in possession of a radio operator's certificate		
Notification number			
Equipment class	Class 2		

Normative in accordance to the **TCAM RIG II** templateInformative in accordance to the **TCAM RIG II** template

Interface Regulations

Amateur

Amateur

Parameter	Description		Comment
Frequency band	7 - 7.2 MHz		
Radio Service	Amateur		
Application	Other Amateur		
Channel / modulation	Channel spacing		
	Designation of emission		
	Modulation / Occupied bandwidth		
	Reference frequency		
Transmit power / Power density	Output power	1000W p.e.p.	If EIRP > 1000W then a special autorisation for the installation is mandatory
	Antenna Gain		
	Radiated power		
Channel access and occupation rules	Duty cycle		
	Access protocol		
	Trans. capacity		
Direction / Separation			
Authorisation regime	Individual Licencing		
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	EN 301 783		
Remarks	Equipment may be operated only by a person in possession of a radio operator's certificate		
Notification number	2007/351/L		
Equipment class	Class 2		

Normative in accordance to the **TCAM RIG II** templateInformative in accordance to the **TCAM RIG II** template

Interface Regulations

Amateur

Amateur

Parameter	Description		Comment
Frequency band	10.1 - 10.15 MHz		
Radio Service	Amateur		
Application	Other Amateur		
Channel / modulation	Channel spacing		
	Designation of emission		
	Modulation / Occupied bandwidth		
	Reference frequency		
Transmit power / Power density	Output power	1000W p.e.p.	If EIRP > 1000W then a special autorisation for the installation is mandatory
	Antenna Gain		
	Radiated power		
Channel access and occupation rules	Duty cycle		
	Access protocol		
	Trans. capacity		
Direction / Separation			
Authorisation regime	Individual Licencing		
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	EN 301 783		
Remarks	Equipment may be operated only by a person in possession of a radio operator's certificate		
Notification number	2007/351/L		
Equipment class	Class 2		

Normative in accordance to the **TCAM RIG II** templateInformative in accordance to the **TCAM RIG II** template

Interface Regulations

Amateur

Amateur

Parameter	Description		Comment
Frequency band	14 - 14.35 MHz		
Radio Service	Amateur		
Application	Other Amateur		
Channel / modulation	Channel spacing		
	Designation of emission		
	Modulation / Occupied bandwidth		
	Reference frequency		
Transmit power / Power density	Output power	1000W p.e.p.	If EIRP > 1000W then a special autorisation for the installation is mandatory
	Antenna Gain		
	Radiated power		
Channel access and occupation rules	Duty cycle		
	Access protocol		
	Trans. capacity		
Direction / Separation			
Authorisation regime	Individual Licencing		
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	EN 301 783		
Remarks	Equipment may be operated only by a person in possession of a radio operator's certificate		
Notification number	2007/351/L		
Equipment class	Class 2		

Normative in accordance to the **TCAM RIG II** templateInformative in accordance to the **TCAM RIG II** template

Interface Regulations

Amateur

Amateur

Parameter	Description		Comment
Frequency band	18.068 - 18.168 MHz		
Radio Service	Amateur		
Application	Other Amateur		
Channel / modulation	Channel spacing		
	Designation of emission		
	Modulation / Occupied bandwidth		
	Reference frequency		
Transmit power / Power density	Output power	1000W p.e.p.	If EIRP > 1000W then a special autorisation for the installation is mandatory
	Antenna Gain		
	Radiated power		
Channel access and occupation rules	Duty cycle		
	Access protocol		
	Trans. capacity		
Direction / Separation			
Authorisation regime	Individual Licencing		
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	EN 301 783		
Remarks	Equipment may be operated only by a person in possession of a radio operator's certificate		
Notification number	2007/351/L		
Equipment class	Class 2		

Normative in accordance to the **TCAM RIG II** templateInformative in accordance to the **TCAM RIG II** template

Interface Regulations

Amateur

Amateur

Parameter	Description		Comment
Frequency band	21 - 21.45 MHz		
Radio Service	Amateur		
Application	Other Amateur		
Channel / modulation	Channel spacing		
	Designation of emission		
	Modulation / Occupied bandwidth		
	Reference frequency		
Transmit power / Power density	Output power	1000W p.e.p.	If EIRP > 1000W then a special autorisation for the installation is mandatory
	Antenna Gain		
	Radiated power		
Channel access and occupation rules	Duty cycle		
	Access protocol		
	Trans. capacity		
Direction / Separation			
Authorisation regime	Individual Licencing		
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	EN 301 783		
Remarks	Equipment may be operated only by a person in possession of a radio operator's certificate		
Notification number	2007/351/L		
Equipment class	Class 2		

Normative in accordance to the **TCAM RIG II** templateInformative in accordance to the **TCAM RIG II** template

Interface Regulations

Amateur

Amateur

Parameter	Description		Comment
Frequency band	24.89 - 24.99 MHz		
Radio Service	Amateur		
Application	Other Amateur		
Channel / modulation	Channel spacing		
	Designation of emission		
	Modulation / Occupied bandwidth		
	Reference frequency		
Transmit power / Power density	Output power	1000W p.e.p.	If EIRP > 1000W then a special autorisation for the installation is mandatory
	Antenna Gain		
	Radiated power		
Channel access and occupation rules	Duty cycle		
	Access protocol		
	Trans. capacity		
Direction / Separation			
Authorisation regime	Individual Licencing		
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	EN 301 783		
Remarks	Equipment may be operated only by a person in possession of a radio operator's certificate		
Notification number	2007/351/L		
Equipment class	Class 2		

Normative in accordance to the **TCAM RIG II** templateInformative in accordance to the **TCAM RIG II** template

Interface Regulations

Amateur

Amateur

Parameter	Description		Comment
Frequency band	28 - 29.7 MHz		
Radio Service	Amateur		
Application	Other Amateur		
Channel / modulation	Channel spacing		
	Designation of emission		
	Modulation / Occupied bandwidth		
	Reference frequency		
Transmit power / Power density	Output power	1000W p.e.p.	If EIRP > 1000W then a special autorisation for the installation is mandatory
	Antenna Gain		
	Radiated power		
Channel access and occupation rules	Duty cycle		
	Access protocol		
	Trans. capacity		
Direction / Separation			
Authorisation regime	Individual Licencing		
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	EN 301 783		
Remarks	Equipment may be operated only by a person in possession of a radio operator's certificate		
Notification number	2007/351/L		
Equipment class	Class 2		

Normative in accordance to the **TCAM RIG II** templateInformative in accordance to the **TCAM RIG II** template

Interface Regulations

Amateur

Amateur

Parameter	Description		Comment
Frequency band	50 - 52 MHz		
Radio Service	Amateur		
Application	Other Amateur		
Channel / modulation	Channel spacing		
	Designation of emission		
	Modulation / Occupied bandwidth		
	Reference frequency		
Transmit power / Power density	Output power	1000W p.e.p.	If EIRP > 1000W then a special autorisation for the installation is mandatory
	Antenna Gain		
	Radiated power		
Channel access and occupation rules	Duty cycle		
	Access protocol		
	Trans. capacity		
Direction / Separation			
Authorisation regime	Individual Licencing		
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	EN 301 783		
Remarks	Equipment may be operated only by a person in possession of a radio operator's certificate		
Notification number	2007/351/L		
Equipment class	Class 2		

Normative in accordance to the **TCAM RIG II** templateInformative in accordance to the **TCAM RIG II** template

Interface Regulations

Amateur

Amateur

Parameter	Description		Comment
Frequency band	70.15 - 70.25 MHz		
Radio Service	<i>Amateur</i> ----- ----- -----		Secondary service
Application	<i>Other</i> ----- <i>Amateur</i> ----- -----		
Channel / modulation	Channel spacing	-----	
	Designation of emission	-----	
	Modulation / Occupied bandwidth	-----	
	Reference frequency	-----	
Transmit power / Power density	Output power	-----	
	Antenna Gain	-----	
	Radiated power	10 dBW (10W) e.r.p.	
Channel access and occupation rules	Duty cycle	-----	
	Access protocol	-----	
	Trans. capacity	-----	
Direction / Separation			
Authorisation regime	Individual Licencing		
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	EN 301 783		
Remarks	Equipment may be operated only by a person in possession of a radio operator's certificate		
Notification number	2007/351/L		
Equipment class	Class 2		

Normative in accordance to the **TCAM RIG II** templateInformative in accordance to the **TCAM RIG II** template

Interface Regulations

Amateur

Amateur

Parameter	Description		Comment
Frequency band	144 - 146 MHz		
Radio Service	Amateur		
Application	Other Amateur		
Channel / modulation	Channel spacing		
	Designation of emission		
	Modulation / Occupied bandwidth		
	Reference frequency		
Transmit power / Power density	Output power	1000W p.e.p.	If EIRP > 1000W then a special autorisation for the installation is mandatory
	Antenna Gain		
	Radiated power		
Channel access and occupation rules	Duty cycle		
	Access protocol		
	Trans. capacity		
Direction / Separation			
Authorisation regime	Individual Licencing		
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	EN 301 783		
Remarks	Equipment may be operated only by a person in possession of a radio operator's certificate		
Notification number	2007/351/L		
Equipment class	Class 2		

Normative in accordance to the **TCAM RIG II** templateInformative in accordance to the **TCAM RIG II** template

Interface Regulations

Amateur

Amateur

Parameter	Description		Comment
Frequency band	430 - 440 MHz		
Radio Service	Amateur		
Application	Other Amateur		
Channel / modulation	Channel spacing		
	Designation of emission		
	Modulation / Occupied bandwidth		
	Reference frequency		
Transmit power / Power density	Output power	1000W p.e.p.	If EIRP > 1000W then a special autorisation for the installation is mandatory
	Antenna Gain		
	Radiated power		
Channel access and occupation rules	Duty cycle		
	Access protocol		
	Trans. capacity		
Direction / Separation			
Authorisation regime	Individual Licensing		
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	EN 301 783		
Remarks	Equipment may be operated only by a person in possession of a radio operator's certificate		
Notification number	2007/351/L		
Equipment class	Class 2		

Normative in accordance to the **TCAM RIG II** templateInformative in accordance to the **TCAM RIG II** template

Interface Regulations

Amateur

Amateur

Parameter	Description		Comment
Frequency band	1240 - 1300 MHz		
Radio Service	Amateur		
Application	Other Amateur		
Channel / modulation	Channel spacing		
	Designation of emission		
	Modulation / Occupied bandwidth		
	Reference frequency		
Transmit power / Power density	Output power	1000W p.e.p.	If EIRP > 1000W then a special autorisation for the installation is mandatory
	Antenna Gain		
	Radiated power		
Channel access and occupation rules	Duty cycle		
	Access protocol		
	Trans. capacity		
Direction / Separation			
Authorisation regime	Individual Licencing		
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	EN 301 783		
Remarks	Equipment may be operated only by a person in possession of a radio operator's certificate		
Notification number	2007/351/L		
Equipment class	Class 2		

Normative in accordance to the **TCAM RIG II** templateInformative in accordance to the **TCAM RIG II** template

Interface Regulations

Amateur

Amateur

Parameter	Description		Comment
Frequency band	2300 - 2450 MHz		
Radio Service	Amateur		
Application	Other Amateur		
Channel / modulation	Channel spacing		
	Designation of emission		
	Modulation / Occupied bandwidth		
	Reference frequency		
Transmit power / Power density	Output power	1000W p.e.p.	If EIRP > 1000W then a special autorisation for the installation is mandatory
	Antenna Gain		
	Radiated power		
Channel access and occupation rules	Duty cycle		
	Access protocol		
	Trans. capacity		
Direction / Separation			
Authorisation regime	Individual Licencing		
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	EN 301 783		
Remarks	Equipment may be operated only by a person in possession of a radio operator's certificate		
Notification number	2007/351/L		
Equipment class	Class 2		

Normative in accordance to the **TCAM RIG II** templateInformative in accordance to the **TCAM RIG II** template

Interface Regulations

Amateur

Amateur

Parameter	Description		Comment
Frequency band	3400 - 3410 MHz		
Radio Service	Amateur		Secondary service
Application	Other Amateur		
Channel / modulation	Channel spacing		
	Designation of emission		
	Modulation / Occupied bandwidth		
	Reference frequency		
Transmit power / Power density	Output power	1000W p.e.p.	If EIRP > 1000W then a special autorisation for the installation is mandatory
	Antenna Gain		
	Radiated power		
Channel access and occupation rules	Duty cycle		
	Access protocol		
	Trans. capacity		
Direction / Separation			
Authorisation regime	Individual Licencing		
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	EN 301 783		
Remarks	Equipment may be operated only by a person in possession of a radio operator's certificate		
Notification number	2007/351/L		
Equipment class	Class 2		

Normative in accordance to the **TCAM RIG II** templateInformative in accordance to the **TCAM RIG II** template

Interface Regulations

Amateur

Amateur

Parameter	Description		Comment
Frequency band	5650 - 5850 MHz		
Radio Service	Amateur		
Application	Other Amateur		
Channel / modulation	Channel spacing		
	Designation of emission		
	Modulation / Occupied bandwidth		
	Reference frequency		
Transmit power / Power density	Output power	1000W p.e.p.	If EIRP > 1000W then a special autorisation for the installation is mandatory
	Antenna Gain		
	Radiated power		
Channel access and occupation rules	Duty cycle		
	Access protocol		
	Trans. capacity		
Direction / Separation			
Authorisation regime	Individual Licencing		
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	EN 301 783		
Remarks	Equipment may be operated only by a person in possession of a radio operator's certificate		
Notification number	2007/351/L		
Equipment class	Class 2		

Normative in accordance to the **TCAM RIG II** templateInformative in accordance to the **TCAM RIG II** template

Interface Regulations

Amateur

Amateur

Parameter	Description		Comment
Frequency band	10000 - 10500 MHz		
Radio Service	Amateur		
Application	Other Amateur		
Channel / modulation	Channel spacing		
	Designation of emission		
	Modulation / Occupied bandwidth		
	Reference frequency		
Transmit power / Power density	Output power	1000W p.e.p.	If EIRP > 1000W then a special autorisation for the installation is mandatory
	Antenna Gain		
	Radiated power		
Channel access and occupation rules	Duty cycle		
	Access protocol		
	Trans. capacity		
Direction / Separation			
Authorisation regime	Individual Licencing		
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	EN 301 783		
Remarks	Equipment may be operated only by a person in possession of a radio operator's certificate		
Notification number	2007/351/L		
Equipment class	Class 2		

Normative in accordance to the **TCAM RIG II** templateInformative in accordance to the **TCAM RIG II** template

Interface Regulations

Amateur

Amateur

Parameter	Description		Comment
Frequency band	24000 - 24250 MHz		
Radio Service	<i>Amateur</i> 		Primary service: <i>Within the sub. band 24-24.05 GHz</i> Secondary service: <i>Within the sub. band 24.05-24.25 GHz</i>
Application	<i>Other</i> <i>Amateur</i> 		
Channel / modulation	Channel spacing		
	Designation of emission		
	Modulation / Occupied bandwidth		
	Reference frequency		
Transmit power / Power density	Output power	1000W p.e.p.	If EIRP > 1000W then a special autorisation for the installation is mandatory
	Antenna Gain		
	Radiated power		
Channel access and occupation rules	Duty cycle		
	Access protocol		
	Trans. capacity		
Direction / Separation			
Authorisation regime	Individual Licencing		
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	EN 301 783		
Remarks	Equipment may be operated only by a person in possession of a radio operator's certificate		
Notification number	2007/351/L		
Equipment class	Class 2		

Normative in accordance to the **TCAM RIG II** templateInformative in accordance to the **TCAM RIG II** template

Interface Regulations

Amateur

Amateur

Parameter	Description		Comment
Frequency band	47000 - 47200 MHz		
Radio Service	Amateur		
Application	Other Amateur		
Channel / modulation	Channel spacing		
	Designation of emission		
	Modulation / Occupied bandwidth		
	Reference frequency		
Transmit power / Power density	Output power	1000W p.e.p.	If EIRP > 1000W then a special autorisation for the installation is mandatory
	Antenna Gain		
	Radiated power		
Channel access and occupation rules	Duty cycle		
	Access protocol		
	Trans. capacity		
Direction / Separation			
Authorisation regime	Individual Licencing		
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	EN 301 783		
Remarks	Equipment may be operated only by a person in possession of a radio operator's certificate		
Notification number	2007/351/L		
Equipment class	Class 2		

Normative in accordance to the **TCAM RIG II** templateInformative in accordance to the **TCAM RIG II** template

Interface Regulations

Amateur

Amateur

Parameter	Description		Comment
Frequency band	75500 - 81000 MHz		
Radio Service	<i>Amateur</i> 		Primary service: Within the sub. bands 75.5-76 GHz Secondary service: Within the sub. bands 76- 81 GHz
Application	<i>Other</i> <i>Amateur</i> 		
Channel / modulation	Channel spacing Designation of emission Modulation / Occupied bandwidth Reference frequency 		
Transmit power / Power density	Output power Antenna Gain Radiated power 	1000W p.e.p. 	If EIRP > 1000W then a special autorisation for the installation is mandatory
Channel access and occupation rules	Duty cycle Access protocol Trans. capacity 		
Direction / Separation			
Authorisation regime	Individual Licencing		
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	EN 301 783		
Remarks	Equipment may be operated only by a person in possession of a radio operator's certificate		
Notification number	2007/351/L		
Equipment class	Class 2		

Normative in accordance to the **TCAM RIG II** templateInformative in accordance to the **TCAM RIG II** template

Interface Regulations

Amateur

Amateur

Parameter	Description		Comment
Frequency band	134000 - 141000 MHz		
Radio Service	<i>Amateur</i> 		Primary service: Within the sub. bands 134-136 GHz Secondary service: Within the sub. bands 136-141 GHz
Application	<i>Other</i> <i>Amateur</i> 		
Channel / modulation	Channel spacing		
	Designation of emission		
	Modulation / Occupied bandwidth		
	Reference frequency		
Transmit power / Power density	Output power	1000W p.e.p.	If EIRP > 1000W then a special autorisation for the installation is mandatory
	Antenna Gain		
	Radiated power		
Channel access and occupation rules	Duty cycle		
	Access protocol		
	Trans. capacity		
Direction / Separation			
Authorisation regime	Individual Licencing		
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	EN 301 783		
Remarks	Equipment may be operated only by a person in possession of a radio operator's certificate		
Notification number	2009/0375/L		
Equipment class	Class 2		

Normative in accordance to the **TCAM RIG II** templateInformative in accordance to the **TCAM RIG II** template

Interface Regulations

Amateur

Amateur

Parameter	Description		Comment
Frequency band	142000 - 149000 MHz		
Radio Service	<i>Amateur</i> ----- ----- -----		Primary service: <i>Within the sub. band 142-144 GHz</i> Secondary service: <i>Within the sub. band 144-149 GHz</i>
Application	<i>Other</i> <i>Amateur</i> ----- -----		
Channel / modulation	Channel spacing	-----	
	Designation of emission	-----	
	Modulation / Occupied bandwidth	-----	
	Reference frequency	-----	
Transmit power / Power density	Output power	1000W p.e.p.	If EIRP > 1000W then a special autorisation for the installation is mandatory
	Antenna Gain	-----	
	Radiated power	-----	
Channel access and occupation rules	Duty cycle	-----	
	Access protocol	-----	
	Trans. capacity	-----	
Direction / Separation			
Authorisation regime	Individual Licencing		
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	EN 301 783		
Remarks	Equipment may be operated only by a person in possession of a radio operator's certificate		
Notification number	2007/351/L		
Equipment class	Class 2		

Normative in accordance to the **TCAM RIG II** templateInformative in accordance to the **TCAM RIG II** template

Interface Regulations

Amateur

Amateur

Parameter	Description		Comment
Frequency band	241000 - 250000 MHz		
Radio Service	<i>Amateur</i> 		Secondary service: Within the sub. band 241-248 GHz Primary service: Within the sub. band 248-250 GHz
Application	<i>Other</i> <i>Amateur</i> 		
Channel / modulation	Channel spacing Designation of emission Modulation / Occupied bandwidth Reference frequency 		
Transmit power / Power density	Output power Antenna Gain Radiated power 	1000W p.e.p. 	If EIRP > 1000W then a special autorisation for the installation is mandatory
Channel access and occupation rules	Duty cycle Access protocol Trans. capacity 		
Direction / Separation			
Authorisation regime	Individual Licencing		
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	EN 301 783		
Remarks	Equipment may be operated only by a person in possession of a radio operator's certificate		
Notification number	2007/351/L		
Equipment class	Class 2		

Normative in accordance to the **TCAM RIG II** templateInformative in accordance to the **TCAM RIG II** template

Interface Regulations

Amateur

Amateur-Satellite

Parameter	Description		Comment
Frequency band	7 - 7.1 MHz		
Radio Service	Amateur-Satellite		
Application	Satellite systems (civil) Amateur-satellite		
Channel / modulation	Channel spacing		
	Designation of emission		
	Modulation / Occupied bandwidth		
	Reference frequency		
Transmit power / Power density	Output power	1000W p.e.p.	If EIRP > 1000W then a special autorisation for the installation is mandatory
	Antenna Gain		
	Radiated power		
Channel access and occupation rules	Duty cycle		
	Access protocol		
	Trans. capacity		
Direction / Separation			
Authorisation regime	Individual Licencing		
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	EN 301 783		
Remarks	Equipment may be operated only by a person in possession of a radio operator's certificate		
Notification number	2007/351/L		
Equipment class	Class 2		

Normative in accordance to the **TCAM RIG II** templateInformative in accordance to the **TCAM RIG II** template

Interface Regulations

Amateur

Amateur-Satellite

Parameter	Description		Comment
Frequency band	14 - 14.25 MHz		
Radio Service	Amateur-Satellite		
Application	Satellite systems (civil) Amateur-satellite		
Channel / modulation	Channel spacing		
	Designation of emission		
	Modulation / Occupied bandwidth		
	Reference frequency		
Transmit power / Power density	Output power	1000W p.e.p.	If EIRP > 1000W then a special autorisation for the installation is mandatory
	Antenna Gain		
	Radiated power		
Channel access and occupation rules	Duty cycle		
	Access protocol		
	Trans. capacity		
Direction / Separation			
Authorisation regime	Individual Licencing		
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	EN 301 783		
Remarks	Equipment may be operated only by a person in possession of a radio operator's certificate		
Notification number	2007/351/L		
Equipment class	Class 2		

Normative in accordance to the **TCAM RIG II** templateInformative in accordance to the **TCAM RIG II** template

Interface Regulations

Amateur

Amateur-Satellite

Parameter	Description		Comment
Frequency band	18.068 - 18.168 MHz		
Radio Service	Amateur-Satellite		
Application	Satellite systems (civil) Amateur-satellite		
Channel / modulation	Channel spacing		
	Designation of emission		
	Modulation / Occupied bandwidth		
	Reference frequency		
Transmit power / Power density	Output power	1000W p.e.p.	If EIRP > 1000W then a special autorisation for the installation is mandatory
	Antenna Gain		
	Radiated power		
Channel access and occupation rules	Duty cycle		
	Access protocol		
	Trans. capacity		
Direction / Separation			
Authorisation regime	Individual Licencing		
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	EN 301 783		
Remarks	Equipment may be operated only by a person in possession of a radio operator's certificate		
Notification number	2007/351/L		
Equipment class	Class 2		

Normative in accordance to the **TCAM RIG II** templateInformative in accordance to the **TCAM RIG II** template

Interface Regulations

Amateur

Amateur-Satellite

Parameter	Description		Comment
Frequency band	21 - 21.45 MHz		
Radio Service	Amateur		
Application	Satellite systems (civil) Amateur-satellite		
Channel / modulation	Channel spacing		
	Designation of emission		
	Modulation / Occupied bandwidth		
	Reference frequency		
Transmit power / Power density	Output power	1000W p.e.p.	If EIRP > 1000W then a special autorisation for the installation is mandatory
	Antenna Gain		
	Radiated power		
Channel access and occupation rules	Duty cycle		
	Access protocol		
	Trans. capacity		
Direction / Separation			
Authorisation regime	Individual Licencing		
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	EN 301 783		
Remarks	Equipment may be operated only by a person in possession of a radio operator's certificate		
Notification number	2007/351/L		
Equipment class	Class 2		

Normative in accordance to the **TCAM RIG II** templateInformative in accordance to the **TCAM RIG II** template

Interface Regulations

Amateur

Amateur-Satellite

Parameter	Description		Comment
Frequency band	24.89 - 24.99 MHz		
Radio Service	Amateur-Satellite		
Application	Satellite systems (civil) Amateur-satellite		
Channel / modulation	Channel spacing		
	Designation of emission		
	Modulation / Occupied bandwidth		
	Reference frequency		
Transmit power / Power density	Output power	1000W p.e.p.	If EIRP > 1000W then a special autorisation for the installation is mandatory
	Antenna Gain		
	Radiated power		
Channel access and occupation rules	Duty cycle		
	Access protocol		
	Trans. capacity		
Direction / Separation			
Authorisation regime	Individual Licencing		
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	EN 301 783		
Remarks	Equipment may be operated only by a person in possession of a radio operator's certificate		
Notification number	2007/351/L		
Equipment class	Class 2		

Normative in accordance to the **TCAM RIG II** templateInformative in accordance to the **TCAM RIG II** template

Interface Regulations

Amateur

Amateur-Satellite

Parameter	Description		Comment
Frequency band	28 - 29.7 MHz		
Radio Service	Amateur-Satellite		
Application	Satellite systems (civil) Amateur-satellite		
Channel / modulation	Channel spacing		
	Designation of emission		
	Modulation / Occupied bandwidth		
	Reference frequency		
Transmit power / Power density	Output power	1000W p.e.p.	If EIRP > 1000W then a special autorisation for the installation is mandatory
	Antenna Gain		
	Radiated power		
Channel access and occupation rules	Duty cycle		
	Access protocol		
	Trans. capacity		
Direction / Separation			
Authorisation regime	Individual Licencing		
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	EN 301 783		
Remarks	Equipment may be operated only by a person in possession of a radio operator's certificate		
Notification number	2007/351/L		
Equipment class	Class 2		

Normative in accordance to the **TCAM RIG II** templateInformative in accordance to the **TCAM RIG II** template

Interface Regulations

Amateur

Amateur-Satellite

Parameter	Description		Comment
Frequency band	144 - 146 MHz		
Radio Service	Amateur-Satellite		
Application	Satellite systems (civil) Amateur-satellite		
Channel / modulation	Channel spacing		
	Designation of emission		
	Modulation / Occupied bandwidth		
	Reference frequency		
Transmit power / Power density	Output power	1000W p.e.p.	If EIRP > 1000W then a special autorisation for the installation is mandatory
	Antenna Gain		
	Radiated power		
Channel access and occupation rules	Duty cycle		
	Access protocol		
	Trans. capacity		
Direction / Separation			
Authorisation regime	Individual Licencing		
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	EN 301 783		
Remarks	Equipment may be operated only by a person in possession of a radio operator's certificate		
Notification number	2007/351/L		
Equipment class	Class 2		

Normative in accordance to the **TCAM RIG II** templateInformative in accordance to the **TCAM RIG II** template

Interface Regulations

Amateur

Amateur-Satellite

Parameter	Description		Comment
Frequency band	435 - 438 MHz		
Radio Service	Amateur-Satellite		
Application	Satellite systems (civil) Amateur-satellite		
Channel / modulation	Channel spacing		
	Designation of emission		
	Modulation / Occupied bandwidth		
	Reference frequency		
Transmit power / Power density	Output power	1000W p.e.p.	If EIRP > 1000W then a special autorisation for the installation is mandatory
	Antenna Gain		
	Radiated power		
Channel access and occupation rules	Duty cycle		
	Access protocol		
	Trans. capacity		
Direction / Separation			
Authorisation regime	Individual Licencing		
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	EN 301 783		
Remarks	Equipment may be operated only by a person in possession of a radio operator's certificate		
Notification number	2007/351/L		
Equipment class	Class 2		

Normative in accordance to the **TCAM RIG II** templateInformative in accordance to the **TCAM RIG II** template

Interface Regulations

Amateur

Amateur-Satellite

Parameter	Description		Comment
Frequency band	1260 - 1270 MHz		
Radio Service	Amateur-Satellite (Earth-to-space)		
Application	Satellite systems (civil) Amateur-satellite		
Channel / modulation	Channel spacing		
	Designation of emission		
	Modulation / Occupied bandwidth		
	Reference frequency		
Transmit power / Power density	Output power	1000W p.e.p.	If EIRP > 1000W then a special autorisation for the installation is mandatory
	Antenna Gain		
	Radiated power		
Channel access and occupation rules	Duty cycle		
	Access protocol		
	Trans. capacity		
Direction / Separation			
Authorisation regime	Individual Licencing		
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	EN 301 783		
Remarks	Equipment may be operated only by a person in possession of a radio operator's certificate		
Notification number	2007/351/L		
Equipment class	Class 2		

Normative in accordance to the **TCAM RIG II** templateInformative in accordance to the **TCAM RIG II** template

Interface Regulations

Amateur

Amateur-Satellite

Parameter	Description		Comment
Frequency band	2400 - 2450 MHz		
Radio Service	Amateur-Satellite		
Application	Satellite systems (civil) Amateur-satellite		
Channel / modulation	Channel spacing		
	Designation of emission		
	Modulation / Occupied bandwidth		
	Reference frequency		
Transmit power / Power density	Output power	1000W p.e.p.	If EIRP > 1000W then a special autorisation for the installation is mandatory
	Antenna Gain		
	Radiated power		
Channel access and occupation rules	Duty cycle		
	Access protocol		
	Trans. capacity		
Direction / Separation			
Authorisation regime	Individual Licencing		
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	EN 301 783		
Remarks	Equipment may be operated only by a person in possession of a radio operator's certificate		
Notification number	2007/351/L		
Equipment class	Class 2		

Normative in accordance to the **TCAM RIG II** templateInformative in accordance to the **TCAM RIG II** template

Interface Regulations

Amateur

Amateur-Satellite

Parameter	Description		Comment
Frequency band	5650 - 5670 MHz		
Radio Service	Amateur-Satellite (Earth-to-space)		
Application	Satellite systems (civil) Amateur-satellite		
Channel / modulation	Channel spacing		
	Designation of emission		
	Modulation / Occupied bandwidth		
	Reference frequency		
Transmit power / Power density	Output power	1000W p.e.p.	If EIRP > 1000W then a special autorisation for the installation is mandatory
	Antenna Gain		
	Radiated power		
Channel access and occupation rules	Duty cycle		
	Access protocol		
	Trans. capacity		
Direction / Separation			
Authorisation regime	Individual Licencing		
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	EN 301 783		
Remarks	Equipment may be operated only by a person in possession of a radio operator's certificate		
Notification number	2007/351/L		
Equipment class	Class 2		

Normative in accordance to the **TCAM RIG II** templateInformative in accordance to the **TCAM RIG II** template

Interface Regulations

Amateur

Amateur-Satellite

Parameter	Description		Comment
Frequency band	5830 - 5850 MHz		
Radio Service	Amateur-Satellite (space-to-Earth)		
Application	Satellite systems (civil) Amateur-satellite		
Channel / modulation	Channel spacing		
	Designation of emission		
	Modulation / Occupied bandwidth		
	Reference frequency		
Transmit power / Power density	Output power	1000W p.e.p.	If EIRP > 1000W then a special autorisation for the installation is mandatory
	Antenna Gain		
	Radiated power		
Channel access and occupation rules	Duty cycle		
	Access protocol		
	Trans. capacity		
Direction / Separation			
Authorisation regime	Individual Licencing		
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	EN 301 783		
Remarks	Equipment may be operated only by a person in possession of a radio operator's certificate		
Notification number	2007/351/L		
Equipment class	Class 2		

Normative in accordance to the **TCAM RIG II** templateInformative in accordance to the **TCAM RIG II** template

Interface Regulations

Amateur

Amateur-Satellite

Parameter	Description		Comment
Frequency band	10450 - 10500 MHz		
Radio Service	Amateur-Satellite		
Application	Satellite systems (civil) Amateur-satellite		
Channel / modulation	Channel spacing		
	Designation of emission		
	Modulation / Occupied bandwidth		
	Reference frequency		
Transmit power / Power density	Output power	1000W p.e.p.	If EIRP > 1000W then a special autorisation for the installation is mandatory
	Antenna Gain		
	Radiated power		
Channel access and occupation rules	Duty cycle		
	Access protocol		
	Trans. capacity		
Direction / Separation			
Authorisation regime	Individual Licencing		
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	EN 301 783		
Remarks	Equipment may be operated only by a person in possession of a radio operator's certificate		
Notification number	2007/351/L		
Equipment class	Class 2		

Normative in accordance to the **TCAM RIG II** templateInformative in accordance to the **TCAM RIG II** template

Interface Regulations

Amateur

Amateur-Satellite

Parameter	Description		Comment
Frequency band	24000 - 24050 MHz		
Radio Service	Amateur-Satellite		
Application	Satellite systems (civil) Amateur-satellite		
Channel / modulation	Channel spacing		
	Designation of emission		
	Modulation / Occupied bandwidth		
	Reference frequency		
Transmit power / Power density	Output power	1000W p.e.p.	If EIRP > 1000W then a special autorisation for the installation is mandatory
	Antenna Gain		
	Radiated power		
Channel access and occupation rules	Duty cycle		
	Access protocol		
	Trans. capacity		
Direction / Separation			
Authorisation regime	Individual Licencing		
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	EN 301 783		
Remarks	Equipment may be operated only by a person in possession of a radio operator's certificate		
Notification number	2007/351/L		
Equipment class	Class 2		

Normative in accordance to the **TCAM RIG II** templateInformative in accordance to the **TCAM RIG II** template

Interface Regulations

Amateur

Amateur-Satellite

Parameter	Description		Comment
Frequency band	47000 - 47200 MHz		
Radio Service	Amateur-Satellite		
Application	Satellite systems (civil) Amateur-satellite		
Channel / modulation	Channel spacing		
	Designation of emission		
	Modulation / Occupied bandwidth		
	Reference frequency		
Transmit power / Power density	Output power	1000W p.e.p.	If EIRP > 1000W then a special autorisation for the installation is mandatory
	Antenna Gain		
	Radiated power		
Channel access and occupation rules	Duty cycle		
	Access protocol		
	Trans. capacity		
Direction / Separation			
Authorisation regime	Individual Licencing		
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	EN 301 783		
Remarks	Equipment may be operated only by a person in possession of a radio operator's certificate		
Notification number	2007/351/L		
Equipment class	Class 2		

Normative in accordance to the **TCAM RIG II** templateInformative in accordance to the **TCAM RIG II** template

Interface Regulations

Amateur

Amateur-Satellite

Parameter	Description		Comment
Frequency band	75500 - 81000 MHz		
Radio Service	Amateur-Satellite		Primary service: Within the sub. bands 75.5-76 GHz Secondary service: Within the sub. bands 76- 81 GHz
Application	Satellite systems (civil) Amateur-satellite		
Channel / modulation	Channel spacing		
	Designation of emission		
	Modulation / Occupied bandwidth		
	Reference frequency		
Transmit power / Power density	Output power	1000W p.e.p.	If EIRP > 1000W then a special autorisation for the installation is mandatory
	Antenna Gain		
	Radiated power		
Channel access and occupation rules	Duty cycle		
	Access protocol		
	Trans. capacity		
Direction / Separation			
Authorisation regime	Individual Licencing		
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	EN 301 783		
Remarks	Equipment may be operated only by a person in possession of a radio operator's certificate		
Notification number	2007/351/L		
Equipment class	Class 2		

Normative in accordance to the **TCAM RIG II** templateInformative in accordance to the **TCAM RIG II** template

Interface Regulations

Amateur

Amateur-Satellite

Parameter	Description		Comment
Frequency band	134000 - 141000 MHz		
Radio Service	Amateur-Satellite		Primary service: Within the sub. bands 134-136 GHz Secondary service: Within the sub. bands 136-141 GHz
Application	Satellite systems (civil) Amateur-satellite		
Channel / modulation	Channel spacing		
	Designation of emission		
	Modulation / Occupied bandwidth		
	Reference frequency		
Transmit power / Power density	Output power	1000W p.e.p.	If EIRP > 1000W then a special autorisation for the installation is mandatory
	Antenna Gain		
	Radiated power		
Channel access and occupation rules	Duty cycle		
	Access protocol		
	Trans. capacity		
Direction / Separation			
Authorisation regime	Individual Licencing		
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	EN 301 783		
Remarks	Equipment may be operated only by a person in possession of a radio operator's certificate		
Notification number	2009/0375/L		
Equipment class	Class 2		

Normative in accordance to the **TCAM RIG II** templateInformative in accordance to the **TCAM RIG II** template

Interface Regulations

Amateur

Amateur-Satellite

Parameter	Description		Comment
Frequency band	142000 - 149000 MHz		
Radio Service	Amateur-Satellite ----- ----- -----		Primary service: Within the sub. band 142-144 GHz Secondary service: Within the sub. band 144-149 GHz
Application	Satellite systems (civil) ----- Amateur-satellite ----- -----		
Channel / modulation	Channel spacing ----- Designation of emission ----- Modulation / Occupied bandwidth ----- Reference frequency -----		
Transmit power / Power density	Output power ----- Antenna Gain ----- Radiated power -----	1000W p.e.p.	If EIRP > 1000W then a special autorisation for the installation is mandatory
Channel access and occupation rules	Duty cycle ----- Access protocol ----- Trans. capacity -----		
Direction / Separation			
Authorisation regime	Individual Licencing		
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	EN 301 783		
Remarks	Equipment may be operated only by a person in possession of a radio operator's certificate		
Notification number	2007/351/L		
Equipment class	Class 2		

Normative in accordance to the **TCAM RIG II** templateInformative in accordance to the **TCAM RIG II** template

Interface Regulations

Amateur

Amateur-Satellite

Parameter	Description		Comment
Frequency band	241000 - 250000 MHz		
Radio Service	Amateur-Satellite		Secondary service: Within the sub. band 241-248 GHz Primary service: Within the sub. band 248-250 GHz
Application	Satellite systems (civil) Amateur-satellite		
Channel / modulation	Channel spacing		
	Designation of emission		
	Modulation / Occupied bandwidth		
	Reference frequency		
Transmit power / Power density	Output power	1000W p.e.p.	If EIRP > 1000W then a special autorisation for the installation is mandatory
	Antenna Gain		
	Radiated power		
Channel access and occupation rules	Duty cycle		
	Access protocol		
	Trans. capacity		
Direction / Separation			
Authorisation regime	Individual Licencing		
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	EN 301 783		
Remarks	Equipment may be operated only by a person in possession of a radio operator's certificate		
Notification number	2007/351/L		
Equipment class	Class 2		

Normative in accordance to the **TCAM RIG II** templateInformative in accordance to the **TCAM RIG II** template

Interface Regulations

Aeronautical Mobile

Aeronautical VHF-Direction Finder

Parameter	Description		Comment
Frequency band	117.975 - 137 MHz		This frequency range is managed by the frequency management group of ICAO
Radio Service	Mobile ----- Aeronautical Mobile -----		
Application	Aeronautical ----- Aeronautical navigation ----- VOR		Direction Finder for VHF COM 8.33/25 kHz
Channel / modulation	Channel spacing	8.33/25kHz	
	Designation of emission		
	Modulation / Occupied bandwidth	A3E	
	Reference frequency		
Transmit power / Power density	Output power		
	Antenna Gain		
	Radiated power		
Channel access and occupation rules	Duty cycle	less 10%	
	Access protocol		
	Trans. capacity		
Direction / Separation			
Authorisation regime	Individual licensing procedure		
Add. essential requirements			
Freq. planning assumption	ICAO Annexe 10, Volume V		
Planned changes			
Reference	EN 60950 EN 301 489-22 EN 300 676		Electrical safety EMC Effective use of spectrum Additional essential requirements
Remarks			
Notification number	2007/351/L		
Equipment class	Class 2		ICAO Annexe 10, Volume III and Volume V

Normative in accordance to the **TCAM RIG II** templateInformative in accordance to the **TCAM RIG II** template

Interface Regulations

Aeronautical Mobile

Aeronautical Communications

Parameter	Description		Comment
Frequency band	117.975 - 137 MHz		This frequency range is managed by the frequency management group of ICAO
Radio Service	Mobile ----- Aeronautical Mobile -----		
Application	Aeronautical ----- Aeronautical communications -----		Voice Communication, VHF COM 8.33/25 kHz
Channel / modulation	Channel spacing	8.33/25 kHz	
	Designation of emission	VHF COM	
	Modulation / Occupied bandwidth	A3E	
	Reference frequency		
Transmit power / Power density	Output power	50W	
	Antenna Gain	0dB	
	Radiated power	35W	
Channel access and occupation rules	Duty cycle	less 10%	
	Access protocol		
	Trans. capacity		
Direction / Separation			
Authorisation regime	Individual licensing procedure		
Add. essential requirements			
Freq. planning assumption	ICAO Annexe 10, Volume V		
Planned changes			
Reference	EN 60950 EN 301 489-22 EN 300 676		Electrical safety EMC Effective use of spectrum Additional essential requirements
Remarks			
Notification number	2007/351/L		
Equipment class	Class 2		ICAO Annexe 10, Volume III, Volume V

Normative in accordance to the **TCAM RIG II** templateInformative in accordance to the **TCAM RIG II** template

Interface Regulations

Aeronautical Mobile

Aeronautical Communication Receiver

Parameter	Description		Comment
Frequency band	117.975 - 137 MHz		This frequency range is managed by the frequency management group of ICAO
Radio Service	Mobile ----- Aeronautical Mobile -----		
Application	Aeronautical ----- Aeronautical communications -----		Voice Communication, VHF COM 8.33/25 kHz
Channel / modulation	Channel spacing	8.33/25 kHz	
	Designation of emission		
	Modulation / Occupied bandwidth	A3E	
	Reference frequency		
Transmit power / Power density	Output power		
	Antenna Gain		
	Radiated power		
Channel access and occupation rules	Duty cycle	less 10%	
	Access protocol		
	Trans. capacity		
Direction / Separation			
Authorisation regime	Individual licensing procedure		
Add. essential requirements			
Freq. planning assumption	ICAO Annexe 10, Volume V		
Planned changes			
Reference	EN 60950 EN 301 489-22 EN 300 676		Electrical safety EMC Effective use of spectrum Additional essential requirements
Remarks			
Notification number	2007/351/L		
Equipment class	Class 2		ICAO Annexe 10, Volume III and Volume V

Normative in accordance to the **TCAM RIG II** templateInformative in accordance to the **TCAM RIG II** template

Interface Regulations

Aeronautical Radionavigation

ILS

Parameter	Description		Comment
Frequency band	108 - 111.975 MHz		This frequency range is managed by the frequency management group of ICAO
Radio Service	<i>Radiodetermination</i> <i>Radionavigation</i> <i>Aeronautical Radionavigation</i>		
Application	<i>Aeronautical</i> <i>Aeronautical navigation</i> <i>ILS</i>		Ground equipment Localizer and Glidepath
Channel / modulation	Channel spacing	50 kHz in VHF band 150 kHz in UHF band	ICAO Annexe 10, Volume I ICAO Doc 7754
	Designation of emission		
	Modulation / Occupied bandwidth	A3E	
	Reference frequency		
Transmit power / Power density	Output power	According ICAO Annexe 10, Volume I	
	Antenna Gain		
	Radiated power		
Channel access and occupation rules	Duty cycle		
	Access protocol		
	Trans. capacity		
Direction / Separation			
Authorisation regime	Individual licensing procedure		
Add. essential requirements			
Freq. planning assumption	ICAO Annexe 10, Volume I and Volume V		
Planned changes			
Reference	EN 60950 - ICAO Annexe 10, Volume I		Electrical safety EMC Effective use of spectrum Additional essential requirements
Remarks	Coupled with 328.6 - 335.4 MHz		
Notification number	2007/351/L		
Equipment class	Class 2		ICAO Annexe 10, Volume I and Volume V

Normative in accordance to the **TCAM RIG II** templateInformative in accordance to the **TCAM RIG II** template

Interface Regulations

Aeronautical Radionavigation

ILS

Parameter	Description		Comment
Frequency band	328.6 - 335.4 MHz		This frequency range is managed by the frequency management group of ICAO
Radio Service	<i>Radiodetermination</i> <i>Radionavigation</i> <i>Aeronautical Radionavigation</i>		
Application	<i>Aeronautical</i> <i>Aeronautical navigation</i> <i>ILS</i>		Ground equipment Localizer and Glidepath
Channel / modulation	Channel spacing	50 kHz in VHF band 150 kHz in UHF band	ICAO Annexe 10, Volume I ICAO Doc 7754
	Designation of emission		
	Modulation / Occupied bandwidth	A3E	
	Reference frequency		
Transmit power / Power density	Output power	According ICAO Annexe 10, Volume I	
	Antenna Gain		
	Radiated power		
Channel access and occupation rules	Duty cycle		
	Access protocol		
	Trans. capacity		
Direction / Separation			
Authorisation regime	Individual licensing procedure		
Add. essential requirements			
Freq. planning assumption	ICAO Annexe 10, Volume I and Volume V		
Planned changes			
Reference	EN 60950 - ICAO Annexe 10, Volume I		Electrical safety EMC Effective use of spectrum Additional essential requirements
Remarks	Coupled with 108 - 111.975 MHz		
Notification number	2007/351/L		
Equipment class	Class 2		ICAO Annexe 10, Volume I and Volume V

Normative in accordance to the **TCAM RIG II** templateInformative in accordance to the **TCAM RIG II** template

Interface Regulations

Aeronautical Radionavigation

VOR

Parameter	Description		Comment
Frequency band	108 - 111.975 MHz		This frequency range is managed by the frequency management group of ICAO
Radio Service	<i>Radiodetermination</i> <i>Radionavigation</i> <i>Aeronautical Radionavigation</i>		
Application	<i>Aeronautical</i> <i>Aeronautical navigation</i> <i>VOR</i>		VHF Omnidirectional radio range (VOR) Doppler VOR (DVOR)
Channel / modulation	Channel spacing	50 kHz	
	Designation of emission		
	Modulation / Occupied bandwidth	AM / FM	
	Reference frequency		
Transmit power / Power density	Output power	According ICAO Annexe 10, Volume I, chapter 3.3	
	Antenna Gain		
	Radiated power		
Channel access and occupation rules	Duty cycle	100%	
	Access protocol		
	Trans. capacity		
Direction / Separation			
Authorisation regime	Individual licensing procedure		
Add. essential requirements			
Freq. planning assumption	ICAO Annexe 10, Volume I and Volume V		
Planned changes			
Reference	EN 60950 EN 301 489-22 Eurocae ED 52		Electrical safety EMC Effective use of spectrum Additional essential requirements
Remarks	Coupled with 111.975 - 117.975 MHz		
Notification number	2007/351/L		
Equipment class	Class 2		ICAO Annexe 10, Volume I and Volume V

Normative in accordance to the **TCAM RIG II** templateInformative in accordance to the **TCAM RIG II** template

Interface Regulations

Aeronautical Radionavigation

VOR

Parameter	Description		Comment
Frequency band	111.975 - 117.975 MHz		This frequency range is managed by the frequency management group of ICAO
Radio Service	<i>Radiodetermination</i> <i>Radionavigation</i> <i>Aeronautical Radionavigation</i>		
Application	<i>Aeronautical</i> <i>Aeronautical navigation</i> <i>VOR</i>		VHF Omnidirectional radio range (VOR) Doppler VOR (DVOR)
Channel / modulation	Channel spacing	50 kHz	
	Designation of emission		
	Modulation / Occupied bandwidth	AM / FM	
	Reference frequency		
Transmit power / Power density	Output power	According ICAO Annexe 10, Volume I, chapter 3.3	
	Antenna Gain		
	Radiated power		
Channel access and occupation rules	Duty cycle	100%	
	Access protocol		
	Trans. capacity		
Direction / Separation			
Authorisation regime	Individual licensing procedure		
Add. essential requirements			
Freq. planning assumption	ICAO Annexe 10, Volume I and Volume V		
Planned changes			
Reference	EN 60950 EN 301 489-22 Eurocae ED 52		Electrical safety EMC Effective use of spectrum Additional essential requirements
Remarks	Coupled with 108 - 111.975 MHz		
Notification number	2007/351/L		
Equipment class	Class 2		ICAO Annexe 10, Volume I and Volume V

Normative in accordance to the **TCAM RIG II** templateInformative in accordance to the **TCAM RIG II** template

Interface Regulations

Aeronautical Radionavigation

Beacons (aeronautical)

Parameter	Description		Comment
Frequency band	0.3 - 0.405 MHz		Frequency coordination by ICAO
Radio Service	<i>Radiodetermination</i> <i>Radionavigation</i> <i>Aeronautical Radionavigation</i>		
Application	<i>Aeronautical</i> <i>Aeronautical navigation</i> <i>Beacons (aeronautical)</i>		Non-directional beacons (NDB)
Channel / modulation	Channel spacing		
	Designation of emission		
	Modulation / Occupied bandwidth	A2A	
	Reference frequency		
Transmit power / Power density	Output power	According ICAO Annexe 10, Volume I	
	Antenna Gain		
	Radiated power		
Channel access and occupation rules	Duty cycle	100%	
	Access protocol		
	Trans. capacity		
Direction / Separation			
Authorisation regime	Individual licensing procedure		
Add. essential requirements			
Freq. planning assumption	ICAO Annexe 10, Volume I and Volume V		
Planned changes			
Reference	EN 60950 EN 55022 ICAO Annexe 10 Volume I		Electrical safety EMC Effective use of spectrum Additional requirements
Remarks			
Notification number	2007/351/L		
Equipment class	Class 2		ICAO Annexe 10, Volume I and Volume V

Normative in accordance to the **TCAM RIG II** templateInformative in accordance to the **TCAM RIG II** template

Interface Regulations

Aeronautical Radionavigation

DME

Parameter	Description		Comment
Frequency band	960 - 1215 MHz		<i>This frequency range is managed by the frequency management group of ICAO</i>
Radio Service	<i>Radiodetermination</i> <i>Radionavigation</i> <i>Aeronautical Radionavigation</i>		
Application	<i>Aeronautical</i> <i>Aeronautical navigation</i> <i>DME</i>		<i>Distance Measuring Equipment</i>
Channel / modulation	Channel spacing	1 MHz	
	Designation of emission		
	Modulation / Occupied bandwidth	-	
	Reference frequency		
Transmit power / Power density	Output power	1 kW peak (en route transponder) 80 W peak DME/P	
	Antenna Gain	6dB	
	Radiated power		
Channel access and occupation rules	Duty cycle	ICAO Annexe 10, Volume I	
	Access protocol		
	Trans. capacity		
Direction / Separation	63 MHz		
Authorisation regime	Individual licensing procedure		
Add. essential requirements			
Freq. planning assumption	ICAO Annexe 10, Volume I and Volume V		
Planned changes			
Reference	EN 60950 EN 55022 Eurocae ED57		<i>Electrical safety</i> <i>EMC</i> <i>Effective use of spectrum</i> <i>Additional essential requirements</i>
Remarks			
Notification number	2007/351/L		
Equipment class	Class 2		

Normative in accordance to the **TCAM RIG II** templateInformative in accordance to the **TCAM RIG II** template

Interface Regulations

Aeronautical Surveillance

Emergency Locator Transmitter (ELT)

Parameter	Description		Comment
Frequency band	242.95 - 243.05 MHz		
Radio Service	Mobile		
	Aeronautical Mobile		
Application	Aeronautical		Emergency Locator Transmitter (ELT)
	Aeronautical surveillance		
Channel / modulation	Channel spacing		
	Designation of emission	----A3E--	
	Modulation / Occupied bandwidth	A3E	
	Reference frequency	243 MHz	
Transmit power / Power density	Output power		
	Antenna Gain		
	Radiated power	100 mW e.i.r.p.	
Channel access and occupation rules	Duty cycle		
	Access protocol		
	Trans. capacity		
Direction / Separation			
Authorisation regime			
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	Eurocae ED-62		Minimum operational performance specification for Aircraft Emergency Locator Transmitter
Remarks	Usage of Equipment		Equipment may be operated only by a person in possession of a radio operator's certificate, valid for the appropriate equipment class.
Notification number	2007/351/L		
Equipment class	Class 2		

Normative in accordance to the **TCAM RIG II** templateInformative in accordance to the **TCAM RIG II** template

Interface Regulations

Aeronautical Surveillance

Monopulse Secondary interrogator Radar

Parameter	Description		Comment
Frequency band	1030 - 1090 MHz		Frequency allocated to Secondary Radars ICAO
Radio Service	<i>Radiodetermination</i> <i>Radionavigation</i> <i>Aeronautical Radionavigation</i>		
Application	<i>Aeronautical</i> <i>Aeronautical surveillance</i>		Airplane detection and ranging
Channel / modulation	Channel spacing		
	Designation of emission		
	Modulation / Occupied bandwidth		
	Reference frequency		
Transmit power / Power density	Output power	2 kW peak	
	Antenna Gain		
	Radiated power		
Channel access and occupation rules	Duty cycle	6%	
	Access protocol		
	Trans. capacity		
Direction / Separation	60%		
Authorisation regime	Individual licensing procedure		
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	<i>EN 60950</i> <i>EN 301 489-22</i> <i>Eurocae ED52</i>		<i>Electrical safety</i> <i>EMC</i> <i>Effective use of spectrum</i> <i>Additional essential requirements</i>
Remarks			
Notification number	2007/351/L		
Equipment class	Class 2		ICAO Annexe 10, Volume II and Volume V

Normative in accordance to the **TCAM RIG II** templateInformative in accordance to the **TCAM RIG II** template

Interface Regulations

Aeronautical Surveillance

Monopulse Mode-S Secondary interrogator Radar

Parameter	Description		Comment
Frequency band	1030 - 1090 MHz		Frequency allocated to Secondary Radars ICAO
Radio Service	<i>Radiodetermination</i> <i>Radionavigation</i> <i>Aeronautical Radionavigation</i>		
Application	<i>Aeronautical</i> <i>Aeronautical surveillance</i>		Airplane detection and ranging Mode-S
Channel / modulation	Channel spacing		
	Designation of emission		
	Modulation / Occupied bandwidth		
	Reference frequency		
Transmit power / Power density	Output power	2 kW peak	
	Antenna Gain		
	Radiated power		
Channel access and occupation rules	Duty cycle	66%	
	Access protocol		
	Trans. capacity		
Direction / Separation	60 MHz		
Authorisation regime	Individual licensing procedure		
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	EN 60950 EN 301 489-22 Eurocae ED52		Electrical safety EMC Effective use of spectrum Additional essential requirements
Remarks			
Notification number	2007/351/L		
Equipment class	Class 2		ICAO Annexe 10, Volume II, Volume V and Eurocontro



Normative in accordance to the **TCAM RIG II** template



Informative in accordance to the **TCAM RIG II** template

Interface Regulations

Aeronautical Surveillance

Mode-S test interrogator

Parameter	Description		Comment
Frequency band	1030 - 1090 MHz		Frequency allocated to Secondary Radars ICAO
Radio Service	Radiodetermination		
	Radionavigation		
	Aeronautical Radionavigation		
Application	Aeronautical		Monitoring of Mode-S equipments
	Aeronautical surveillance		
Channel / modulation	Channel spacing		
	Designation of emission		
	Modulation / Occupied bandwidth		
	Reference frequency		
Transmit power / Power density	Output power	1 W peak	
	Antenna Gain		
	Radiated power		
Channel access and occupation rules	Duty cycle	1%	
	Access protocol		
	Trans. capacity		
Direction / Separation	60 MHz		
Authorisation regime	Individual licensing procedure		
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	EN 60950 EN 301 489-22 Eurocae ED57 E061-04-1234TD		Electrical safety EMC Effective use of spectrum Additional essential requirements
Remarks			
Notification number	2007/351/L		
Equipment class	Class 2		ICAO Annexe 10 Volume II and Eurocontrol specifica

Normative in accordance to the **TCAM RIG II** templateInformative in accordance to the **TCAM RIG II** template

Interface Regulations

Aeronautical Surveillance

Primary surveillance Radar

Parameter	Description		Comment
Frequency band	2700 - 2900 MHz		Frequency allocated to Primary Radar ICAO
Radio Service	<i>Radiodetermination</i> <i>Radionavigation</i> <i>Aeronautical Radionavigation</i>		
Application	<i>Aeronautical</i> <i>Aeronautical surveillance</i> <i>Primary radar</i>		Airplane detection and ranging PSR
Channel / modulation	Channel spacing		
	Designation of emission		
	Modulation / Occupied bandwidth		
	Reference frequency		
Transmit power / Power density	Output power	(1) 1 MW pulse (2) 18kW pulse compression	
	Antenna Gain	ICAO Annexe 10, Volume II	
	Radiated power		
Channel access and occupation rules	Duty cycle	(1) 0.18% (2) 1.1%	
	Access protocol		
	Trans. capacity		
Direction / Separation			
Authorisation regime	Individual licensing procedure		
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	EN 60950 EN 55022 Eurocae ED57		Electrical safety EMC Effective use of spectrum Additional essential requirements
Remarks			
Notification number	2007/351/L		
Equipment class	Class 2		ICAO Annexe 10, Volume II and Volume V

Normative in accordance to the **TCAM RIG II** templateInformative in accordance to the **TCAM RIG II** template

Interface Regulations

Aeronautical Surveillance

A-SMGCS

Parameter	Description		Comment
Frequency band	9000 - 9200 MHz		
Radio Service	Radiodetermination		
	Radionavigation		
	Aeronautical Radionavigation		
Application	Aeronautical		Advanced Surface Movement Guidance and Control System
	Aeronautical surveillance		
Channel / modulation	Channel spacing		
	Designation of emission		
	Modulation / Occupied bandwidth		
	Reference frequency		
Transmit power / Power density	Output power	<= 50 dBW (PEP)	
	Antenna Gain		
	Radiated power		
Channel access and occupation rules	Duty cycle		
	Access protocol		
	Trans. capacity		
Direction / Separation			
Authorisation regime	Individual licensing		
Add. essential requirements			
Freq. planning assumption	Limits for Out-of-band and spurious emissions according to EN 303 213-6 apply.		
Planned changes			
Reference	EN 303 213		
Remarks			
Notification number	2015/12/L		
Equipment class	Class 2		

Normative in accordance to the **TCAM RIG II** templateInformative in accordance to the **TCAM RIG II** template

Interface Regulations

Aeronautical Surveillance

ADS

Parameter	Description		Comment
Frequency band	1030 - 1090 MHz		
Radio Service	Radiodetermination		
	Radionavigation		
	Aeronautical Radionavigation		
Application	Aeronautical		
	Aeronautical surveillance		
	ADS		
Channel / modulation	Channel spacing		
	Designation of emission		
	Modulation / Occupied bandwidth		
	Reference frequency		
Transmit power / Power density	Output power		
	Antenna Gain		
	Radiated power		
Channel access and occupation rules	Duty cycle		
	Access protocol		
	Trans. capacity		
Direction / Separation			
Authorisation regime	Individual licensing regime		
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	EUROCAE ED117		
Remarks			
Notification number	2010/378/L		
Equipment class	Class 2		

Normative in accordance to the **TCAM RIG II** templateInformative in accordance to the **TCAM RIG II** template

Interface Regulations

Maritime equipment

Parameter	Description		Comment
Frequency band	0.518 - 0.518 MHz		
Radio Service	<i>Mobile</i> <i>Maritime Mobile</i>		
Application	<i>Maritime</i> <i>GMDSS</i> <i>NAVTEX</i>		<i>Navtex equipment.</i> <i>No application on the territory of Luxembourg, but on ships navigating in maritime waters under the flag of Luxembourg.</i>
Channel / modulation	Channel spacing	<i>not defined</i>	
	Designation of emission	<i>---F1B--</i>	
	Modulation / Occupied bandwidth	<i>F1B</i>	
	Reference frequency	<i>518 kHz</i>	
Transmit power / Power density	Output power		
	Antenna Gain		
	Radiated power		
Channel access and occupation rules	Duty cycle		
	Access protocol		
	Trans. capacity		
Direction / Separation	<i>not defined</i>		
Authorisation regime	<i>Individual licensing</i>		
Add. essential requirements	<i>Decision 2013/638/EU</i>		
Freq. planning assumption	<i>ITU Regulations</i>		
Planned changes			
Reference	<i>EN 300 065</i>		
Remarks	<i>Usage of Equipment</i>		<i>Equipment may be operated only by a person in possession of a radio operator's certificate, valid for the appropriate equipment class.</i>
Notification number	<i>2007/351/L</i>		
Equipment class	<i>Class 2</i>		

Normative in accordance to the **TCAM RIG II** templateInformative in accordance to the **TCAM RIG II** template

Interface Regulations

Maritime equipment

Parameter	Description		Comment
Frequency band	1.605 - 4 MHz		
Radio Service	<i>Mobile</i> <i>Maritime Mobile</i> <i>Maritime Mobile (distress and safety)</i>		<i>Usage for radio telephony and digital selective calling (DSC)</i>
Application	<i>Maritime</i> <i>GMDSS</i>		<i>Fixed MF/HF equipment on board of ship stations. No application on the territory of Luxembourg, but on ships navigating in maritime waters under the flag of Luxembourg.</i>
Channel / modulation	Channel spacing		
	Designation of emission		
	Modulation / Occupied bandwidth	<i>J3E;J2B;F1B</i>	<i>J3E for telephony J2B for DSC F1B</i>
	Reference frequency		
Transmit power / Power density	Output power	<i>400 W</i>	
	Antenna Gain		
	Radiated power		
Channel access and occupation rules	Duty cycle		
	Access protocol		
	Trans. capacity		
Direction / Separation	<i>not defined</i>		
Authorisation regime	<i>Individual licensing</i>		
Add. essential requirements	<i>Decision 2013/638/EU</i>		
Freq. planning assumption	<i>ITU Regulations</i>		
Planned changes			
Reference	<i>ETS 300 373; EN 300 338</i>		
Remarks	<i>Usage of Equipment</i>		<i>Equipment may be operated only by a person in possession of a radio operator's certificate, valid for the appropriate equipment class.</i>
Notification number	<i>2007/351/L</i>		
Equipment class	<i>Class 2</i>		

Normative in accordance to the **TCAM RIG II** templateInformative in accordance to the **TCAM RIG II** template

Interface Regulations

Maritime equipment

Parameter	Description		Comment
Frequency band	1.605 - 4 MHz		
Radio Service	<i>Mobile</i> <i>Maritime Mobile</i> <i>Maritime Mobile (distress and safety)</i>		<i>Usage for radiotelex and narrow-band direct printing (NBDP)</i>
Application	<i>Maritime</i> <i>GMDSS</i>		<i>Fixed MF/HF equipment on board of ship stations.</i> <i>No application on the territory of Luxembourg, but on ships navigating in maritime waters under the flag of Luxembourg.</i>
Channel / modulation	Channel spacing		<i>F1B, J2B for radiotelex</i>
	Designation of emission		
	Modulation / Occupied bandwidth	<i>F1B, J2B</i>	
	Reference frequency		
Transmit power / Power density	Output power	<i>400 W</i>	
	Antenna Gain		
	Radiated power		
Channel access and occupation rules	Duty cycle		
	Access protocol		
	Trans. capacity		
Direction / Separation	<i>not defined</i>		
Authorisation regime	<i>Individual licensing</i>		
Add. essential requirements	<i>Decision 2013/638/EU</i>		
Freq. planning assumption	<i>ITU Regulations</i>		
Planned changes			
Reference	<i>ETS 300 373</i>		
Remarks	<i>Usage of Equipment</i>		<i>Equipment may be operated only by a person in possession of a radio operator's certificate, valid for the appropriate equipment class.</i>
Notification number	<i>2007/351/L</i>		
Equipment class	<i>Class 2</i>		

Normative in accordance to the **TCAM RIG II** templateInformative in accordance to the **TCAM RIG II** template

Interface Regulations

Maritime equipment

Parameter	Description		Comment
Frequency band	4 - 27.5 MHz		
Radio Service	<i>Mobile</i> <i>Maritime Mobile</i> <i>Maritime Mobile (distress and safety)</i>		<i>Usage for radio telephony and digital selective calling (DSC)</i>
Application	<i>Maritime</i> <i>GMDSS</i>		<i>Fixed HF equipment on board of ship stations.</i> <i>No application on the territory of Luxembourg, but on ships navigating in maritime waters under the flag of Luxembourg.</i>
Channel / modulation	Channel spacing		<i>J3E for telephony</i> <i>J2B for DSC</i> <i>F1B</i>
	Designation of emission		
	Modulation / Occupied bandwidth	<i>J3E;J2B;F1B</i>	
	Reference frequency		
Transmit power / Power density	Output power	<i>1 500 W</i>	
	Antenna Gain		
	Radiated power		
Channel access and occupation rules	Duty cycle		
	Access protocol		
	Trans. capacity		
Direction / Separation	<i>not defined</i>		
Authorisation regime	<i>Individual licensing</i>		
Add. essential requirements	<i>Decision 2013/638/EU</i>		
Freq. planning assumption	<i>ITU Regulations</i>		
Planned changes			
Reference	<i>ETS 300 373; EN 300 338</i>		
Remarks	<i>Usage of Equipment</i>		<i>Equipment may be operated only by a person in possession of a radio operator's certificate, valid for the appropriate equipment class.</i>
Notification number	<i>2007/351/L</i>		
Equipment class	<i>Class 2</i>		

Normative in accordance to the **TCAM RIG II** templateInformative in accordance to the **TCAM RIG II** template

Interface Regulations

Maritime equipment

Parameter	Description		Comment
Frequency band	4 - 27.5 MHz		
Radio Service	<i>Mobile</i> <i>Maritime Mobile</i> <i>Maritime Mobile (distress and safety)</i>		<i>Usage for radiotelex and narrow-band direct printing (NBDP)</i>
Application	<i>Maritime</i> <i>GMDSS</i>		<i>Fixed HF equipment on board of ship stations.</i> <i>No application on the territory of Luxembourg, but on ships navigating in maritime waters under the flag of Luxembourg.</i>
Channel / modulation	Channel spacing		<i>F1B, J2B for radiotelex</i>
	Designation of emission		
	Modulation / Occupied bandwidth	<i>F1B, J2B</i>	
	Reference frequency		
Transmit power / Power density	Output power	<i>1 500 W</i>	
	Antenna Gain		
	Radiated power		
Channel access and occupation rules	Duty cycle		
	Access protocol		
	Trans. capacity		
Direction / Separation	<i>not defined</i>		
Authorisation regime	<i>Individual licensing</i>		
Add. essential requirements	<i>Decision 2013/638/EU</i>		
Freq. planning assumption	<i>ITU Regulations</i>		
Planned changes			
Reference	<i>ETS 300 373</i>		
Remarks	<i>Usage of Equipment</i>		<i>Equipment may be operated only by a person in possession of a radio operator's certificate, valid for the appropriate equipment class.</i>
Notification number	<i>2007/351/L</i>		
Equipment class	<i>Class 2</i>		

Normative in accordance to the **TCAM RIG II** templateInformative in accordance to the **TCAM RIG II** template

Interface Regulations

Maritime equipment

Parameter	Description		Comment
Frequency band	156 - 163 MHz		
Radio Service	<i>Mobile</i> <i>Maritime Mobile</i> <i>Maritime Mobile (distress and safety)</i>		
Application	<i>Maritime</i> <i>GMDSS</i>		<i>Survival craft portable VHF radiotelephone apparatus.</i> <i>No application on the territory of Luxembourg, but on ships navigating in maritime waters under the flag of Luxembourg.</i>
Channel / modulation	Channel spacing	25 kHz	G3E for telephony
	Designation of emission	16K0G3E--	
	Modulation / Occupied bandwidth	G3E	
	Reference frequency		
Transmit power / Power density	Output power	1 W; 6W	
	Antenna Gain		
	Radiated power		
Channel access and occupation rules	Duty cycle		
	Access protocol		
	Trans. capacity		
Direction / Separation	4.6 MHz		
Authorisation regime	Individual licensing		
Add. essential requirements	Decision 2013/638/EU Decision 2000/637/EC (ATIS/AIS)		Application of Article 3(3)(e) of Directive 1999/5/EC to radio equipment covered by the regional arrangement concerning the radiotelephone service on inland waterways.
Freq. planning assumption	ITU App.18		
Planned changes			
Reference	ETS 300 225		
Remarks	Usage of Equipment		Equipment may be operated only by a person in possession of a radio operator's certificate, valid for the appropriate equipment class.
Notification number	2008/338/L		
Equipment class	Class 2		

Normative in accordance to the **TCAM RIG II** templateInformative in accordance to the **TCAM RIG II** template

Interface Regulations

Maritime equipment

Parameter	Description		Comment
Frequency band	156 - 163 MHz		
Radio Service	<i>Mobile</i> <i>Maritime Mobile</i> <i>Maritime Mobile (distress and safety)</i>		
Application	<i>Maritime</i> <i>GMDSS</i>		<i>Fixed VHF equipment on board of ship stations</i> <i>No application on the territory of Luxembourg, but on ships navigating in maritime waters under the flag of Luxembourg.</i>
Channel / modulation	Channel spacing	25 kHz	
	Designation of emission	16K0G3E--	
	Modulation / Occupied bandwidth	G3E	
	Reference frequency		
Transmit power / Power density	Output power	1 W; 25 W	25 W, but with possibility to be reduced to max. 1 W (manually).
	Antenna Gain		
	Radiated power	max 25 W e.r.p.	
Channel access and occupation rules	Duty cycle		
	Access protocol		
	Trans. capacity		
Direction / Separation	4.6 MHz		Part of the band is simplex
Authorisation regime	Individual licensing		
Add. essential requirements	Decision 2013/638/EU		
Freq. planning assumption	ITU App.18		
Planned changes			
Reference	EN 301 466; EN 300 162		
Remarks	Usage of Equipment		Equipment may be operated only by a person in possession of a radio operator's certificate, valid for the appropriate equipment class.
Notification number	2008/338/L		
Equipment class	Class 2		

Normative in accordance to the **TCAM RIG II** templateInformative in accordance to the **TCAM RIG II** template

Interface Regulations

Maritime equipment

Parameter	Description		Comment
Frequency band	156 - 163 MHz		
Radio Service	<i>Mobile</i> <i>Maritime Mobile</i> <i>Maritime Mobile (distress and safety)</i>		
Application	<i>Maritime</i> <i>GMDSS</i> <i>DSC</i>		<i>Fixed VHF equipment on board of ship stations with DSC Class D on ch 70.</i> <i>No application on the territory of Luxembourg, but on ships navigating in maritime waters under the flag of Luxembourg.</i>
Channel / modulation	Channel spacing Designation of emission Modulation / Occupied bandwidth Reference frequency	<i>25 kHz</i> <i>16K0G2B--</i> <i>G2B</i> 	<i>G2B for DSC usage on ch70</i>
Transmit power / Power density	Output power Antenna Gain Radiated power	<i>1 W; 25 W</i> <i>max 25 W e.r.p.</i>	<i>25 W, but with possibility to be reduced to max. 1 W (manually).</i>
Channel access and occupation rules	Duty cycle Access protocol Trans. capacity	 	
Direction / Separation	4.6 MHz		<i>Part of the band is simplex</i>
Authorisation regime	<i>Individual licensing</i>		
Add. essential requirements	<i>Decision 2013/638/EU</i>		
Freq. planning assumption	<i>ITU App.18</i>		
Planned changes			
Reference	<i>EN 301 025; EN 300 338; IEC 62238</i>		
Remarks	<i>Usage of Equipment</i>		<i>Equipment may be operated only by a person in possession of a radio operator's certificate, valid for the appropriate equipment class.</i>
Notification number	<i>2008/338/L</i>		
Equipment class	<i>Class 2</i>		

Normative in accordance to the **TCAM RIG II** templateInformative in accordance to the **TCAM RIG II** template

Interface Regulations

Maritime equipment

Parameter	Description		Comment
Frequency band	156 - 163 MHz		
Radio Service	<i>Mobile</i> <i>Maritime Mobile</i> <i>Maritime Mobile (distress, safety and calling)</i>		
Application	<i>Maritime</i> <i>GMDSS</i> <i>DSC</i>		<i>Handheld VHF equipment on board of ship stations with DSC Class D on ch 70.</i> <i>No application on the territory of Luxembourg, but on ships navigating in maritime waters under the flag of Luxembourg.</i>
Channel / modulation	Channel spacing	25 kHz	G2B for DSC usage on ch70
	Designation of emission	16K0G2B--	
	Modulation / Occupied bandwidth	FSK/16kHz	
	Reference frequency		
Transmit power / Power density	Output power	max 6W	
	Antenna Gain		
	Radiated power		
Channel access and occupation rules	Duty cycle		
	Access protocol		
	Trans. capacity		
Direction / Separation	4.6 MHz		Part of the band is simplex
Authorisation regime	Individual licensing		
Add. essential requirements			
Freq. planning assumption	ITU App.18		
Planned changes			
Reference	EN 302 885		
Remarks	Usage of Equipment		Equipment may be operated only by a person in possession of a radio operator's certificate, valid for the appropriate equipment class.
Notification number	2013/632/L		
Equipment class	Class 2		

Normative in accordance to the **TCAM RIG II** templateInformative in accordance to the **TCAM RIG II** template

Interface Regulations

Maritime equipment

Parameter	Description		Comment
Frequency band	156 - 163 MHz		
Radio Service	<i>Mobile</i> <i>Maritime Mobile</i>		
Application	<i>Maritime</i> <i>Maritime communications</i> <i>On-board communications</i>		<i>Portable VHF equipment on board of ship station (maritime and Inland waterways).</i> <i>Inland waterways:</i> <i>* Usage limited to the channels 15 and/or 17 (on board communications).</i> <i>* ATIS should be encoded.</i>
Channel / modulation	Channel spacing	25 kHz	
	Designation of emission	16K0G3E--	
	Modulation / Occupied bandwidth	G3E	
	Reference frequency		
Transmit power / Power density	Output power	0.1 - 1 W; 1 W; 6 W	<i>Maritime:</i> <i>6 W, but with possibility to be reduced to max. 1 W.</i> <i>Inland waterways:</i> <i>0.1 - 1 W</i>
	Antenna Gain		
	Radiated power		
Channel access and occupation rules	Duty cycle		
	Access protocol		
	Trans. capacity		
Direction / Separation	4.6 MHz		<i>Part of the band is simplex</i>
Authorisation regime	Individual licensing		
Add. essential requirements	Decision 2000/637/EC (ATIS)		<i>Application of Article 3(3)(e) of Directive 1999/5/EC to radio equipment covered by the regional arrangement concerning the radiocommunications services on inland waterways.</i>
Freq. planning assumption	ITU App.18 Rainwat Arrangment 2012		
Planned changes			
Reference	EN 301 178; EN 300 698		
Remarks	Usage of Equipment		<i>Equipment may be operated only by a person in possession of a radio operator's certificate, valid for the appropriate equipment class.</i>
Notification number	2008/338/L		
Equipment class	Class 2		

Normative in accordance to the **TCAM RIG II** templateInformative in accordance to the **TCAM RIG II** template

Interface Regulations

Maritime equipment

Parameter	Description		Comment
Frequency band	156 - 163 MHz		
Radio Service	<i>Mobile</i> <i>Maritime Mobile</i>		
Application	<i>Maritime</i> <i>Maritime communications</i> <i>Inland waterway communications</i>		<i>Fixed VHF equipment on board of ship stations (maritime and Inland waterways).</i>
Channel / modulation	Channel spacing	25 kHz	
	Designation of emission	16K0G3E--	
	Modulation / Occupied bandwidth	G3E	
	Reference frequency		
Transmit power / Power density	Output power	1 W; 25 W	25 W, but with possibility to be reduced to max. 1 W (manually and automatically).
	Antenna Gain		
	Radiated power	max 25 W e.r.p.	
Channel access and occupation rules	Duty cycle		
	Access protocol		
	Trans. capacity		
Direction / Separation	4.6 MHz		Part of the band is simplex
Authorisation regime	Individual licensing		
Add. essential requirements	Decision 2000/637/EC (ATIS)		Application of Article 3(3)(e) of Directive 1999/5/EC to radio equipment covered by the regional arrangement concerning the radiocommunications services on inland waterways.
Freq. planning assumption	ITU App.18, Rainwat Arrangment 2012		
Planned changes			
Reference	EN 300 698		
Remarks	Usage of Equipment		Equipment may be operated only by a person in possession of a radio operator's certificate, valid for the appropriate equipment class.
Notification number	2008/338/L		
Equipment class	Class 2		

Normative in accordance to the **TCAM RIG II** templateInformative in accordance to the **TCAM RIG II** template

Interface Regulations

Maritime equipment

Parameter	Description		Comment
Frequency band	156 - 163 MHz		
Radio Service	Mobile		
	Maritime Mobile		
	Maritime Mobile (distress and safety)		
Application	Maritime		
	Maritime communications		VHF coast station for inland waterways
	Inland waterway communications		
Channel / modulation	Channel spacing	25 kHz; 12.5 kHz	
	Designation of emission	G3E	
	Modulation / Occupied bandwidth		
	Reference frequency		
Transmit power / Power density	Output power	as defined by ETSI standard	
	Antenna Gain		
	Radiated power	as defined by ETSI standard	
Channel access and occupation rules	Duty cycle		
	Access protocol		
	Trans. capacity		
Direction / Separation	4.6 MHz		Part of the band is simplex
Authorisation regime	Individual licensing		
Add. essential requirements			
Freq. planning assumption			
Planned changes	ITU App. 18, Rainwat Arrangement 2012		
Reference	EN 301 929		
Remarks	Usage of Equipment		Equipment may be operated only by a person in possession of a radio operator's certificate, valid for the appropriate equipment class.
Notification number	2013/632/L		
Equipment class	Class 2		

Normative in accordance to the **TCAM RIG II** templateInformative in accordance to the **TCAM RIG II** template

Interface Regulations

Maritime equipment

Parameter	Description		Comment
Frequency band	161.975 - 161.975 MHz		AIS1
Radio Service	<i>Mobile</i> <i>Maritime Mobile</i>		
Application	<i>Maritime</i> <i>Maritime communications</i> <i>AIS</i>		RIS (River Information Services) for Inland waterways
Channel / modulation	Channel spacing	25 kHz	
	Designation of emission		
	Modulation / Occupied bandwidth	GMSK/FM	
	Reference frequency		
Transmit power / Power density	Output power		
	Antenna Gain		
	Radiated power	12.5W max	
Channel access and occupation rules	Duty cycle		
	Access protocol	TDMA	
	Trans. capacity		
Direction / Separation			
Authorisation regime	Licence is necessary as well as attribution of an MMSI number		
Add. essential requirements	For radio equipment intending to participate in AIS, Commission Decision 2005/53/EC applies.		
Freq. planning assumption	according to ITU channeling and CEPT/ERC/DEC(99)17 Rainwat Arrangment 2012		
Planned changes			
Reference	IEC62287, IEC 62320, ITU-R M.1371		
Remarks	see comment		For radio equipment intending to participate in RIS (River Information services), the directive 2005/44/EC (RIS directive) applies.
Notification number	2009/0375/L		
Equipment class			

Normative in accordance to the **TCAM RIG II** templateInformative in accordance to the **TCAM RIG II** template

Interface Regulations

Maritime equipment

Parameter	Description		Comment
Frequency band	162.025 - 162.025 MHz		AIS2
Radio Service	<i>Mobile</i> <i>Maritime Mobile</i>		
Application	<i>Maritime</i> <i>Maritime communications</i> <i>AIS</i>		<i>RIS (River Information Services) for Inland waterways</i>
Channel / modulation	Channel spacing	25 kHz	
	Designation of emission		
	Modulation / Occupied bandwidth	GMSK/FM	
	Reference frequency		
Transmit power / Power density	Output power		
	Antenna Gain		
	Radiated power	12.5W max	
Channel access and occupation rules	Duty cycle		
	Access protocol	TDMA	
	Trans. capacity		
Direction / Separation			
Authorisation regime	<i>Licence is necessary as well as attribution of an MMSI number</i>		
Add. essential requirements	<i>For radio equipment intending to participate in AIS, Commission Decision 2005/53/EC applies.</i>		
Freq. planning assumption	<i>according to ITU channeling and CEPT/ERC/DEC(99)17 Rainwat Arrangement 2012</i>		
Planned changes			
Reference	<i>IEC62287, IEC 62320, ITU-R M.1371</i>		
Remarks	<i>see comment</i>		<i>For radio equipment intending to participate in RIS (River Information services), the directive 2005/44/EC (RIS directive) applies.</i>
Notification number	2009/0375/L		
Equipment class			

Normative in accordance to the **TCAM RIG II** templateInformative in accordance to the **TCAM RIG II** template

Interface Regulations

Maritime equipment

Parameter	Description		Comment
Frequency band	457.5125 - 467.5875 MHz		
Radio Service	<i>Mobile</i> <i>Maritime Mobile</i>		
Application	<i>Maritime</i> <i>Maritime communications</i> <i>On-board communications</i>		<i>Portable UHF equipment.</i> <i>No application on the territory of Luxembourg, but on ships navigating in maritime waters under the flag of Luxembourg.</i>
Channel / modulation	Channel spacing	12.5 kHz, 25 kHz	
	Designation of emission	16K0G3E-- 8K00G3E--	
	Modulation / Occupied bandwidth	G3E	
	Reference frequency		
Transmit power / Power density	Output power	Maritime: 0.4 - 2 W	
	Antenna Gain		
	Radiated power		
Channel access and occupation rules	Duty cycle		
	Access protocol		
	Trans. capacity		
Direction / Separation	10 MHz		
Authorisation regime	Individual licensing		
Add. essential requirements			
Freq. planning assumption	ITU Regulations		
Planned changes			
Reference	EN 300 720		
Remarks	Usage of Equipment		Equipment may be operated only by a person in possession of a radio operator's certificate, valid for the appropriate equipment class.
Notification number	2013/216/L		
Equipment class	Class 2		

Normative in accordance to the **TCAM RIG II** templateInformative in accordance to the **TCAM RIG II** template

Interface Regulations

Maritime equipment

Parameter	Description		Comment
Frequency band	2900 - 3100 MHz		
Radio Service	Radiodetermination		
	Radionavigation		
	Maritime Radionavigation (radiobeacons)		
Application	Maritime		s-band maritime radar equipment
	Maritime navigation		
	Maritime radar		
Channel / modulation	Channel spacing	not defined	
	Designation of emission	---P0N--	
	Modulation / Occupied bandwidth	P0N	
	Reference frequency		
Transmit power / Power density	Output power		
	Antenna Gain		
	Radiated power	max. 32 MW e.i.r.p. peak	
Channel access and occupation rules	Duty cycle		
	Access protocol		
	Trans. capacity		
Direction / Separation	not defined		
Authorisation regime	Individual licensing		
Add. essential requirements			
Freq. planning assumption	ITU Regulations		
Planned changes			
Reference	IEC 62388, EN 60945, EN 62252, EN 60936		
Remarks			
Notification number	2009/0375/L		
Equipment class	Class 2		

Normative in accordance to the **TCAM RIG II** templateInformative in accordance to the **TCAM RIG II** template

Interface Regulations

Maritime equipment

Parameter	Description		Comment
Frequency band	9200 - 9500 MHz		
Radio Service	<i>Radiodetermination</i> <i>Radiolocation</i>		
Application	<i>Maritime</i> <i>GMDSS</i>		<i>SART equipment.</i> <i>No application on the territory of Luxembourg, but on ships navigating in maritime waters under the flag of Luxembourg.</i>
Channel / modulation	Channel spacing	<i>not defined</i>	
	Designation of emission	<i>---P0N--</i>	
	Modulation / Occupied bandwidth	<i>P0N</i>	
	Reference frequency		
Transmit power / Power density	Output power	<i>> 400 mW (+26 dBm)</i>	
	Antenna Gain		
	Radiated power		
Channel access and occupation rules	Duty cycle		
	Access protocol		
	Trans. capacity		
Direction / Separation	<i>not defined</i>		
Authorisation regime	<i>Individual licensing</i>		
Add. essential requirements	<i>Decision 2013/638/EU</i>		
Freq. planning assumption	<i>ITU Regulations</i>		
Planned changes			
Reference	<i>IEC 1097-1, EN 302 248</i>		
Remarks	<i>Usage of Equipment</i>		<i>Equipment may be operated only by a person in possession of a radio operator's certificate, valid for the appropriate equipment class.</i>
Notification number	<i>2007/351/L</i>		
Equipment class	<i>Class 2</i>		

Normative in accordance to the **TCAM RIG II** templateInformative in accordance to the **TCAM RIG II** template

Interface Regulations

Maritime equipment

Parameter	Description		Comment
Frequency band	9320 - 9500 MHz		
Radio Service	<i>Radiodetermination</i> <i>Radionavigation</i> <i>Maritime Radionavigation (radiobeacons)</i>		
Application	<i>Maritime</i> <i>Maritime navigation</i> <i>Maritime radar</i>		<i>x-band radar equipment (maritime + inland waterways).</i>
Channel / modulation	Channel spacing	<i>not defined</i>	
	Designation of emission	<i>---P0N--</i>	
	Modulation / Occupied bandwidth	<i>P0N</i>	
	Reference frequency		
Transmit power / Power density	Output power		<i>* max 100 MW eirp peak for maritime radars</i> <i>* max 10 MW eirp peak for inland waterway radars</i>
	Antenna Gain		
	Radiated power	<i>max. 10/100 MW e.i.r.p. peak</i>	
Channel access and occupation rules	Duty cycle		
	Access protocol		
	Trans. capacity		
Direction / Separation	<i>not defined</i>		
Authorisation regime	<i>Individual licensing</i>		
Add. essential requirements			
Freq. planning assumption	<i>ITU Regulations</i> <i>Rainwat Arrangment 2012</i>		
Planned changes			
Reference	<i>IEC 62388, EN 302 194, EN 302 248,</i> <i>EN 60945, EN 62252, EN 60936</i>		
Remarks			
Notification number	<i>2008/338/L</i>		
Equipment class	<i>Class 2</i>		

Normative in accordance to the **TCAM RIG II** templateInformative in accordance to the **TCAM RIG II** template

Interface Regulations

Point-to-point fixed links

Parameter	Description		Comment
Frequency band	1350 - 1375 MHz		
Radio Service	Fixed		
Application	Fixed Point-to-Point		This band is foreseen for point-to-point fixed links applications.
Channel / modulation	Channel spacing	25 kHz; 75 kHz; 250 kHz; 500 kHz; 1 MHz; 2 MHz; 3.5 MHz	
	Designation of emission		
	Modulation / Occupied bandwidth	digital at least 4 states modulation	
	Reference frequency	1 433.5 MHz	
Transmit power / Power density	Output power	as defined by the ETSI standard	
	Antenna Gain	as defined by the ETSI standard	
	Radiated power		
Channel access and occupation rules	Duty cycle		
	Access protocol		
	Trans. capacity	as defined by the ETSI standard	
Direction / Separation	142 MHz		
Authorisation regime	Individual licensing (bloc frequency assignment, individual frequency assignment)		
Add. essential requirements			
Freq. planning assumption	ERC REC T/R 13-01		
Planned changes			
Reference	EN 300 454; EN 302 217		
Remarks	Coupled with 1492 - 1517 MHz		
Notification number	2011/466/L		
Equipment class	Class 2		

Normative in accordance to the **TCAM RIG II** templateInformative in accordance to the **TCAM RIG II** template

Interface Regulations

Point-to-point fixed links

Parameter	Description		Comment
Frequency band	1492 - 1517 MHz		
Radio Service	Fixed		
Application	Fixed Point-to-Point		This band is foreseen for point-to-point fixed links applications.
Channel / modulation	Channel spacing	25 kHz; 75 kHz; 250 kHz; 500 kHz; 1 MHz; 2 MHz; 3.5 MHz	
	Designation of emission		
	Modulation / Occupied bandwidth	digital at least 4 states modulation	
	Reference frequency	1 433.5 MHz	
Transmit power / Power density	Output power	as defined by the ETSI standard	
	Antenna Gain	as defined by the ETSI standard	
	Radiated power		
Channel access and occupation rules	Duty cycle		
	Access protocol		
	Trans. capacity	as defined by the ETSI standard	
Direction / Separation	142 MHz		
Authorisation regime	Individual licensing (bloc frequency assignment, individual frequency assignment)		
Add. essential requirements			
Freq. planning assumption	ERC REC T/R 13-01		
Planned changes			
Reference	EN 300 454; EN 302 217		
Remarks	Coupled with 1350 - 1375 MHz		
Notification number	2011/466/L		
Equipment class	Class 2		

Normative in accordance to the **TCAM RIG II** templateInformative in accordance to the **TCAM RIG II** template

Interface Regulations

Point-to-point fixed links

Parameter	Description		Comment
Frequency band	1375 - 1400 MHz		
Radio Service	Fixed		
Application	Fixed Point-to-Point		This band is foreseen for point-to-point fixed links applications.
Channel / modulation	Channel spacing	25 kHz; 75 kHz; 250 kHz; 500 kHz; 1MHz; 2 MHz; 3.5 MHz	
	Designation of emission		
	Modulation / Occupied bandwidth	digital at least 4 states modulation	
	Reference frequency	1 413.5 MHz	
Transmit power / Power density	Output power	as defined by the ETSI standard	
	Antenna Gain	as defined by the ETSI standard	
	Radiated power		
Channel access and occupation rules	Duty cycle		
	Access protocol		
	Trans. capacity	as defined by the ETSI standard	
Direction / Separation	52 MHz		
Authorisation regime	Individual licensing (bloc frequency assignment, individual frequency assignment)		
Add. essential requirements			
Freq. planning assumption	ERC REC T/R 13-01		
Planned changes			
Reference	EN 300 454; EN 302 217		
Remarks	Coupled with 1427 - 1452 MHz		
Notification number	2011/466/L		
Equipment class	Class 2		

Normative in accordance to the **TCAM RIG II** templateInformative in accordance to the **TCAM RIG II** template

Interface Regulations

Point-to-point fixed links

Parameter	Description		Comment
Frequency band	1427 - 1452 MHz		
Radio Service	Fixed		
Application	Fixed Point-to-Point		This band is foreseen for point-to-point fixed links applications.
Channel / modulation	Channel spacing	25 kHz; 75 kHz; 250 kHz; 500 kHz; 1MHz; 2 MHz; 3.5 MHz	
	Designation of emission		
	Modulation / Occupied bandwidth	digital at least 4 states modulation	
	Reference frequency	1 413.5 MHz	
Transmit power / Power density	Output power	as defined by the ETSI standard	
	Antenna Gain	as defined by the ETSI standard	
	Radiated power		
Channel access and occupation rules	Duty cycle		
	Access protocol		
	Trans. capacity	as defined by the ETSI standard	
Direction / Separation	52 MHz		
Authorisation regime	Individual licensing (bloc frequency assignment, individual frequency assignment)		
Add. essential requirements			
Freq. planning assumption	ERC REC T/R 13-01		
Planned changes			
Reference	EN 300 454; EN 302 217		
Remarks	Coupled with 1375 - 1400 MHz		
Notification number	2011/466/L		
Equipment class	Class 2		

Normative in accordance to the **TCAM RIG II** templateInformative in accordance to the **TCAM RIG II** template

Interface Regulations

Point-to-point fixed links

Parameter	Description		Comment
Frequency band	5925 - 6425 MHz		
Radio Service	Fixed		
Application	Fixed Point-to-Point		
Channel / modulation	Channel spacing	29.65 MHz, 59.3 MHz	
	Designation of emission		
	Modulation / Occupied bandwidth	digital at least 4 states modulation	
	Reference frequency	6 175 MHz	
Transmit power / Power density	Output power	as defined by the ETSI standard	
	Antenna Gain	as defined by the ETSI standard	
	Radiated power		
Channel access and occupation rules	Duty cycle		
	Access protocol		
	Trans. capacity	as defined by the ETSI standard	
Direction / Separation	252.04 MHz		
Authorisation regime	Individual licensing (bloc frequency assignment, individual frequency assignment)		
Add. essential requirements			
Freq. planning assumption	ERC REC 14-01		
Planned changes			
Reference	EN 302 217		
Remarks			
Notification number	2011/466/L		
Equipment class	Class 2		

Normative in accordance to the **TCAM RIG II** templateInformative in accordance to the **TCAM RIG II** template

Interface Regulations

Point-to-point fixed links

Parameter	Description		Comment
Frequency band	6425 - 7125 MHz		
Radio Service	Fixed		
Application	Fixed Point-to-Point		
Channel / modulation	Channel spacing	3.5, 7, 14, 20, 30, 40, 60, 80 MHz	
	Designation of emission		
	Modulation / Occupied bandwidth	digital at least 16 states modulation	
	Reference frequency	6 770 MHz	
Transmit power / Power density	Output power	as defined by the ETSI standard	
	Antenna Gain	as defined by the ETSI standard	
	Radiated power		
Channel access and occupation rules	Duty cycle		
	Access protocol		
	Trans. capacity	as defined by the ETSI standard	
Direction / Separation	340 MHz		
Authorisation regime	Individual licensing (bloc frequency assignment, individual frequency assignment)		
Add. essential requirements			
Freq. planning assumption	ERC REC 14-02		
Planned changes			
Reference	EN 302 217		
Remarks			
Notification number	2011/466/L		
Equipment class	Class 2		

Normative in accordance to the **TCAM RIG II** templateInformative in accordance to the **TCAM RIG II** template

Interface Regulations

Point-to-point fixed links

Parameter	Description		Comment
Frequency band	7125 - 7425 MHz		
Radio Service	Fixed		
Application	Fixed Point-to-Point		
Channel / modulation	Channel spacing	1.75 MHz; 3.5 MHz; 7 MHz; 14 MHz; 28 MHz; 56 MHz	
	Designation of emission		
	Modulation / Occupied bandwidth	digital at least 4 states modulation	
	Reference frequency	7 275 MHz	
Transmit power / Power density	Output power	as defined by the ETSI standard	
	Antenna Gain	as defined by the ETSI standard	
	Radiated power		
Channel access and occupation rules	Duty cycle		
	Access protocol		
	Trans. capacity	as defined by the ETSI standard	
Direction / Separation	154 MHz		
Authorisation regime	Individual licensing (bloc frequency assignment, individual frequency assignment)		
Add. essential requirements			
Freq. planning assumption	ECC REC 02-06		
Planned changes			
Reference	EN 302 217		
Remarks			
Notification number	2011/466/L		
Equipment class	Class 2		

Normative in accordance to the **TCAM RIG II** templateInformative in accordance to the **TCAM RIG II** template

Interface Regulations

Point-to-point fixed links

Parameter	Description		Comment
Frequency band	7425 - 7725 MHz		
Radio Service	Fixed		
Application	Fixed Point-to-Point		
Channel / modulation	Channel spacing	1.75 MHz; 3.5 MHz; 7 MHz; 14 MHz; 28 MHz; 56 MHz	
	Designation of emission		
	Modulation / Occupied bandwidth	digital at least 4 states modulation	
	Reference frequency	7 575 MHz	
Transmit power / Power density	Output power	as defined by the ETSI standard	
	Antenna Gain	as defined by the ETSI standard	
	Radiated power		
Channel access and occupation rules	Duty cycle		
	Access protocol		
	Trans. capacity	as defined by the ETSI standard	
Direction / Separation	154 MHz		
Authorisation regime	Individual licensing (bloc frequency assignment, individual frequency assignment)		
Add. essential requirements			
Freq. planning assumption	ECC REC 02-06 ITU REC F.385-9		
Planned changes			
Reference	EN 302 217		
Remarks			
Notification number	2011/466/L		
Equipment class	Class 2		

Normative in accordance to the **TCAM RIG II** templateInformative in accordance to the **TCAM RIG II** template

Interface Regulations

Point-to-point fixed links

Parameter	Description		Comment
Frequency band	7725 - 8275 MHz		
Radio Service	Fixed		
Application	Fixed Point-to-Point		
Channel / modulation	Channel spacing	7, 14, 28 MHz	
	Designation of emission		
	Modulation / Occupied bandwidth	digital at least 4 states modulation	
	Reference frequency	8 000 MHz	
Transmit power / Power density	Output power	as defined by the ETSI standard	
	Antenna Gain	as defined by the ETSI standard	
	Radiated power		
Channel access and occupation rules	Duty cycle		
	Access protocol		
	Trans. capacity	as defined by the ETSI standard	
Direction / Separation	283.5 MHz		
Authorisation regime	Individual licensing (bloc frequency assignment, individual frequency assignment)		
Add. essential requirements			
Freq. planning assumption	ITU REC. F.386-8, ECC/REC(02)06		
Planned changes			
Reference	EN 302 217		
Remarks			
Notification number	2011/466/L		
Equipment class	Class 2		

Normative in accordance to the **TCAM RIG II** templateInformative in accordance to the **TCAM RIG II** template

Interface Regulations

Point-to-point fixed links

Parameter	Description		Comment
Frequency band	8275 - 8500 MHz		
Radio Service	Fixed		
Application	Fixed Point-to-Point		
Channel / modulation	Channel spacing	14 MHz; 28 MHz	
	Designation of emission		
	Modulation / Occupied bandwidth	digital at least 4 states modulation	
	Reference frequency	8 387.5 MHz	
Transmit power / Power density	Output power	as defined by the ETSI standard	
	Antenna Gain	as defined by the ETSI standard	
	Radiated power		
Channel access and occupation rules	Duty cycle		
	Access protocol		
	Trans. capacity	as defined by the ETSI standard	
Direction / Separation	119 MHz; 126 MHz		
Authorisation regime	Individual licensing (bloc frequency assignment, individual frequency assignment)		
Add. essential requirements			
Freq. planning assumption	ECC REC (02)06 ITU REC. F.386-8		
Planned changes			
Reference	EN 302 217		
Remarks			
Notification number	2011/466/L		
Equipment class	Class 2		

Normative in accordance to the **TCAM RIG II** templateInformative in accordance to the **TCAM RIG II** template

Interface Regulations

Point-to-point fixed links

Parameter	Description		Comment
Frequency band	10150 - 10680 MHz		
Radio Service	Fixed		
Application	Fixed Point-to-Point		
Channel / modulation	Channel spacing	3.5 MHz; 7 MHz; 14 MHz; 28 MHz; 56 MHz	
	Designation of emission		
	Modulation / Occupied bandwidth	digital at least 4 states modulation	
	Reference frequency	11 701 MHz	
Transmit power / Power density	Output power	as defined by the ETSI standard	
	Antenna Gain	as defined by the ETSI standard	
	Radiated power		
Channel access and occupation rules	Duty cycle		
	Access protocol		
	Trans. capacity	as defined by the ETSI standard	
Direction / Separation	350 MHz		
Authorisation regime	Individual licensing (bloc frequency assignment, individual frequency assignment)		
Add. essential requirements			
Freq. planning assumption	ERC REC 12-05		
Planned changes			
Reference	EN 302 217		
Remarks			
Notification number	2011/466/L		
Equipment class	Class 2		

Normative in accordance to the **TCAM RIG II** templateInformative in accordance to the **TCAM RIG II** template

Interface Regulations

Point-to-point fixed links

Parameter	Description		Comment
Frequency band	12750 - 13250 MHz		
Radio Service	Fixed		
Application	Fixed Point-to-Point		
Channel / modulation	Channel spacing	1.75 MHz; 3.5 MHz; 7 MHz; 14 MHz; 28 MHz; 56 MHz	
	Designation of emission		
	Modulation / Occupied bandwidth	digital at least 4 states modulation	
	Reference frequency	12 996 MHz	
Transmit power / Power density	Output power	as defined by the ETSI standard	
	Antenna Gain	as defined by the ETSI standard	
	Radiated power		
Channel access and occupation rules	Duty cycle		
	Access protocol		
	Trans. capacity	as defined by the ETSI standard	
Direction / Separation	266 MHz		
Authorisation regime	Individual licensing (bloc frequency assignment, individual frequency assignment)		
Add. essential requirements			
Freq. planning assumption	ERC REC 12-02		
Planned changes			
Reference	302 217		
Remarks			
Notification number	2011/466/L		
Equipment class	Class 2		

Normative in accordance to the **TCAM RIG II** templateInformative in accordance to the **TCAM RIG II** template

Interface Regulations

Point-to-point fixed links

Parameter	Description		Comment
Frequency band	14500 - 14620 MHz		Harmonised NATO band
Radio Service	Fixed		
Application	Fixed Point-to-Point		
Channel / modulation	Channel spacing	1.75 MHz; 3.5 MHz; 7 MHz; 14 MHz; 28 MHz; 56 MHz	
	Designation of emission		
	Modulation / Occupied bandwidth	digital at least 4 states modulation	
	Reference frequency	14 924 MHz	
Transmit power / Power density	Output power	as defined by the ETSI standard	
	Antenna Gain	as defined by the ETSI standard	
	Radiated power		
Channel access and occupation rules	Duty cycle		
	Access protocol		
	Trans. capacity	as defined by the ETSI standard	
Direction / Separation	728 MHz		
Authorisation regime	Individual licensing (bloc frequency assignment, individual frequency assignment)		
Add. essential requirements			
Freq. planning assumption	ERC REC 12-07		
Planned changes			
Reference	EN 302 217		
Remarks	Coupled with 15.23 - 15.35 GHz		
Notification number	2011/466/L		
Equipment class	Class 2		

Normative in accordance to the **TCAM RIG II** templateInformative in accordance to the **TCAM RIG II** template

Interface Regulations

Point-to-point fixed links

Parameter	Description		Comment
Frequency band	15230 - 15350 MHz		Harmonised NATO band
Radio Service	Fixed		
Application	Fixed Point-to-Point		
Channel / modulation	Channel spacing	1.75 MHz; 3.5 MHz; 7 MHz; 14 MHz; 28 MHz; 56 MHz	
	Designation of emission		
	Modulation / Occupied bandwidth	digital at least 4 states modulation	
	Reference frequency	14 924 MHz	
Transmit power / Power density	Output power	as defined by the ETSI standard	
	Antenna Gain	as defined by the ETSI standard	
	Radiated power		
Channel access and occupation rules	Duty cycle		
	Access protocol		
	Trans. capacity	as defined by the ETSI standard	
Direction / Separation	728 MHz		
Authorisation regime	Individual licensing (bloc frequency assignment, individual frequency assignment)		
Add. essential requirements			
Freq. planning assumption	ERC REC 12-07		
Planned changes			
Reference	EN 302 217		
Remarks	Coupled with 14.5 - 14.62 GHz		
Notification number	2011/466/L		
Equipment class	Class 2		

Normative in accordance to the **TCAM RIG II** templateInformative in accordance to the **TCAM RIG II** template

Interface Regulations

Point-to-point fixed links

Parameter	Description		Comment
Frequency band	17700 - 19700 MHz		
Radio Service	Fixed		
Application	Fixed Point-to-Point		Application only if sharing according to DEC (00)07 is possible. Interoperator agreement necessary.
Channel / modulation	Channel spacing	3.5 MHz; 7 MHz; 13.75 MHz; 27.5 MHz; 55 MHz; 110 MHz	
	Designation of emission		
	Modulation / Occupied bandwidth	digital at least 4 states modulation	
	Reference frequency	18 700 MHz	
Transmit power / Power density	Output power	as defined by the ETSI standard	
	Antenna Gain	as defined by the ETSI standard	
	Radiated power		
Channel access and occupation rules	Duty cycle		
	Access protocol		
	Trans. capacity	as defined by the ETSI standard	
Direction / Separation	1 010 MHz		
Authorisation regime	Individual licensing (bloc frequency assignment, individual frequency assignment)		
Add. essential requirements			
Freq. planning assumption	ERC REC 12-03 ITU REC F.595-10		
Planned changes			
Reference	EN 302 217		
Remarks			
Notification number	2011/466/L		
Equipment class	Class 2		

Normative in accordance to the **TCAM RIG II** templateInformative in accordance to the **TCAM RIG II** template

Interface Regulations

Point-to-point fixed links

Parameter	Description		Comment
Frequency band	22000 - 22600 MHz		
Radio Service	Fixed		
Application	Fixed Point-to-Point		
Channel / modulation	Channel spacing	3.5 MHz; 7 MHz; 14 MHz; 28 MHz; 56 MHz; 112 MHz	
	Designation of emission		
	Modulation / Occupied bandwidth	digital at least 4 states modulation	
	Reference frequency	21 196 MHz	
Transmit power / Power density	Output power	as defined by the ETSI standard	
	Antenna Gain	as defined by the ETSI standard	
	Radiated power		
Channel access and occupation rules	Duty cycle		
	Access protocol		
	Trans. capacity	as defined by the ETSI standard	
Direction / Separation	1 008 MHz		
Authorisation regime	Individual licensing (bloc frequency assignment, individual frequency assignment)		
Add. essential requirements			
Freq. planning assumption	ERC REC T/R 13-02		
Planned changes			
Reference	EN 302 217		
Remarks	Coupled with 23 - 23.6 GHz		
Notification number	2011/466/L		
Equipment class	Class 2		

Normative in accordance to the **TCAM RIG II** templateInformative in accordance to the **TCAM RIG II** template

Interface Regulations

Point-to-point fixed links

Parameter	Description		Comment
Frequency band	23000 - 23600 MHz		
Radio Service	Fixed		
Application	Fixed Point-to-Point		
Channel / modulation	Channel spacing	3.5 MHz; 7 MHz; 14 MHz; 28 MHz; 56 MHz; 112 MHz	
	Designation of emission		
	Modulation / Occupied bandwidth	digital at least 4 states modulation	
	Reference frequency	21 196 MHz	
Transmit power / Power density	Output power	as defined by the ETSI standard	
	Antenna Gain	as defined by the ETSI standard	
	Radiated power		
Channel access and occupation rules	Duty cycle		
	Access protocol		
	Trans. capacity	as defined by the ETSI standard	
Direction / Separation	1 008 MHz		
Authorisation regime	Individual licensing (bloc frequency assignment, individual frequency assignment)		
Add. essential requirements			
Freq. planning assumption	ERC REC T/R 13-02		
Planned changes			
Reference	EN 302 217		
Remarks	Coupled with 22 - 22.6 GHz		
Notification number	2011/466/L		
Equipment class	Class 2		

Normative in accordance to the **TCAM RIG II** templateInformative in accordance to the **TCAM RIG II** template

Interface Regulations

Point-to-point fixed links

Parameter	Description		Comment
Frequency band	24500 - 25500 MHz		
Radio Service	Fixed		
Application	Fixed Point-to-Point		
Channel / modulation	Channel spacing	3.5 MHz; 7 MHz; 14 MHz; 28 MHz; 56 MHz; 112 MHz	
	Designation of emission		
	Modulation / Occupied bandwidth	digital at least 4 states modulation	
	Reference frequency	25 501 MHz	
Transmit power / Power density	Output power	as defined by the ETSI standard	
	Antenna Gain	as defined by the ETSI standard	
	Radiated power		
Channel access and occupation rules	Duty cycle		
	Access protocol		
	Trans. capacity	as defined by the ETSI standard	
Direction / Separation	1 008 MHz		
Authorisation regime	Individual licensing (bloc frequency assignment, individual frequency assignment)		
Add. essential requirements			
Freq. planning assumption	ERC REC T/R 13-02		
Planned changes			
Reference	EN 302 217		
Remarks	Coupled with 25.5 - 26.5 GHz		
Notification number	2011/466/L		
Equipment class	Class 2		

Normative in accordance to the **TCAM RIG II** templateInformative in accordance to the **TCAM RIG II** template

Interface Regulations

Point-to-point fixed links

Parameter	Description		Comment
Frequency band	25500 - 26500 MHz		
Radio Service	Fixed		
Application	Fixed Point-to-Point		
Channel / modulation	Channel spacing	3.5 MHz; 7 MHz; 14 MHz; 28 MHz; 56 MHz; 112 MHz	
	Designation of emission		
	Modulation / Occupied bandwidth	digital at least 4 states modulation	
	Reference frequency	25 501 MHz	
Transmit power / Power density	Output power	as defined by the ETSI standard	
	Antenna Gain	as defined by the ETSI standard	
	Radiated power		
Channel access and occupation rules	Duty cycle		
	Access protocol		
	Trans. capacity	as defined by the ETSI standard	
Direction / Separation	1 008 MHz		
Authorisation regime	Individual licensing (bloc frequency assignment, individual frequency assignment)		
Add. essential requirements			
Freq. planning assumption	ERC REC T/R 13-02		
Planned changes			
Reference	EN 302 217		
Remarks	Coupled with 24.5 - 25.5 GHz		
Notification number	2011/466/L		
Equipment class	Class 2		

Normative in accordance to the **TCAM RIG II** templateInformative in accordance to the **TCAM RIG II** template

Interface Regulations

Point-to-point fixed links

Parameter	Description		Comment
Frequency band	27500 - 29500 MHz		P-P allowed in the frequency band of 27.5-29.5 GHz according to ECC DEC (05)01
Radio Service	Fixed		
Application	Fixed Point-to-Point		
Channel / modulation	Channel spacing	3.5 MHz; 7 MHz; 14 MHz; 28 MHz; 56 MHz; 112 MHz	
	Designation of emission		
	Modulation / Occupied bandwidth	digital at least 4 states modulation	
	Reference frequency	28 500.5 MHz	
Transmit power / Power density	Output power	as defined by the ETSI standard	
	Antenna Gain	as defined by the ETSI standard	
	Radiated power		
Channel access and occupation rules	Duty cycle		
	Access protocol		
	Trans. capacity	as defined by the ETSI standard	
Direction / Separation	1 008 MHz		
Authorisation regime	Individual licensing (bloc frequency assignment, individual frequency assignment)		
Add. essential requirements			
Freq. planning assumption	ERC REC T/R 13-02		
Planned changes			
Reference	EN 302 217		
Remarks			
Notification number	2011/466/L		
Equipment class	Class 2		

Normative in accordance to the **TCAM RIG II** templateInformative in accordance to the **TCAM RIG II** template

Interface Regulations

Point-to-point fixed links

Parameter	Description		Comment
Frequency band	31000 - 31300 MHz		
Radio Service	Fixed		
Application	Fixed Point-to-Point		This band is foreseen for point-to-point fixed links applications.
Channel / modulation	Channel spacing	3.5 MHz; 7 MHz; 14 MHz; 28 MHz	
	Designation of emission		
	Modulation / Occupied bandwidth	digital at least 4 states modulation	
	Reference frequency	31 000 MHz	
Transmit power / Power density	Output power	as defined by the ETSI standard	
	Antenna Gain	as defined by the ETSI standard	
	Radiated power		
Channel access and occupation rules	Duty cycle		
	Access protocol		
	Trans. capacity	as defined by the ETSI standard	
Direction / Separation	TDD : None ; FDD : 140 MHz		
Authorisation regime	Individual licensing (bloc frequency assignment, individual frequency assignment)		
Add. essential requirements			
Freq. planning assumption	ECC REC 02-02		
Planned changes			
Reference	EN 302 217		
Remarks			
Notification number	2011/466/L		
Equipment class	Class 2		

Normative in accordance to the **TCAM RIG II** templateInformative in accordance to the **TCAM RIG II** template

Interface Regulations

Point-to-point fixed links

Parameter	Description		Comment
Frequency band	31800 - 33400 MHz		
Radio Service	Fixed		
Application	Fixed Point-to-Point		
Channel / modulation	Channel spacing	3.5 MHz; 7 MHz; 14 MHz; 28 MHz; 56 MHz; 112 MHz	
	Designation of emission		
	Modulation / Occupied bandwidth	digital at least 4 states modulation	
	Reference frequency	32 599 MHz	
Transmit power / Power density	Output power	as defined by the ETSI standard	
	Antenna Gain	as defined by the ETSI standard	
	Radiated power		
Channel access and occupation rules	Duty cycle		
	Access protocol		
	Trans. capacity	as defined by the ETSI standard	
Direction / Separation	TDD, FDD :812 MHz		
Authorisation regime	Individual licensing (bloc frequency assignment, individual frequency assignment)		
Add. essential requirements			
Freq. planning assumption	ERC REC 01-02		
Planned changes			
Reference	EN 302 217		
Remarks			
Notification number	2011/466/L		
Equipment class	Class 2		

Normative in accordance to the **TCAM RIG II** templateInformative in accordance to the **TCAM RIG II** template

Interface Regulations

Point-to-point fixed links

Parameter	Description		Comment
Frequency band	37000 - 39500 MHz		Sub-bands: 37 - 37.124 GHz / 38.26 - 38.402 GHz for unplanned, uncoordinated fixed links
Radio Service	Fixed		
Application	Fixed Point-to-Point		In the band 37.5-39.2 GHz sharing with FSS, according to ERC DEC (00)02
Channel / modulation	Channel spacing	3.5 MHz; 7 MHz; 14 MHz; 28 MHz; 56 MHz; 112 MHz	
	Designation of emission		
	Modulation / Occupied bandwidth	digital at least 4 states modulation	
	Reference frequency	38 248 MHz	
Transmit power / Power density	Output power	as defined by the ETSI standard	
	Antenna Gain	as defined by the ETSI standard	
	Radiated power		
Channel access and occupation rules	Duty cycle		
	Access protocol		
	Trans. capacity	as defined by the ETSI standard	
Direction / Separation	1 260 MHz		
Authorisation regime	Individual licensing (bloc frequency assignment, individual frequency assignment)		
Add. essential requirements			
Freq. planning assumption	ERC REC T/R 12-01 ERC DEC (00)02		
Planned changes			
Reference	EN 302 217		
Remarks			
Notification number	2011/466/L		
Equipment class	Class 2		

Normative in accordance to the **TCAM RIG II** templateInformative in accordance to the **TCAM RIG II** template

Interface Regulations

Point-to-point fixed links

Parameter	Description		Comment
Frequency band	48500 - 50200 MHz		
Radio Service	Fixed		
Application	Fixed Point-to-Point		This band is foreseen for point-to-point fixed links applications.
Channel / modulation	Channel spacing	3.5 MHz; 7 MHz; 14 MHz; 28 MHz	
	Designation of emission		
	Modulation / Occupied bandwidth	digital	
	Reference frequency	49 350 MHz	
Transmit power / Power density	Output power	as defined by the ETSI standard	
	Antenna Gain	as defined by the ETSI standard	
	Radiated power		
Channel access and occupation rules	Duty cycle		
	Access protocol		
	Trans. capacity	as defined by the ETSI standard	
Direction / Separation	884 MHz		
Authorisation regime	Individual licensing (bloc frequency assignment, individual frequency assignment)		
Add. essential requirements			
Freq. planning assumption	ERC REC 12-10		
Planned changes			
Reference	EN 302 217		
Remarks			
Notification number	2011/466/L		
Equipment class	Class 2		

Normative in accordance to the **TCAM RIG II** templateInformative in accordance to the **TCAM RIG II** template

Interface Regulations

Point-to-point fixed links

Parameter	Description		Comment
Frequency band	51400 - 52600 MHz		
Radio Service	Fixed		
Application	Fixed Point-to-Point		This band is foreseen for point-to-point fixed links applications.
Channel / modulation	Channel spacing	3.5 MHz; 7 MHz; 14 MHz; 28 MHz; 56 MHz	
	Designation of emission		
	Modulation / Occupied bandwidth	digital	
	Reference frequency	51 412 MHz	
Transmit power / Power density	Output power	as defined by the ETSI standard	
	Antenna Gain	as defined by the ETSI standard	
	Radiated power		
Channel access and occupation rules	Duty cycle		
	Access protocol		
	Trans. capacity	as defined by the ETSI standard	
Direction / Separation	616 MHz		
Authorisation regime	Individual licensing (bloc frequency assignment, individual frequency assignment)		
Add. essential requirements			
Freq. planning assumption	ERC REC 12-11		
Planned changes			
Reference	EN 302 217		
Remarks			
Notification number	2011/466/L		
Equipment class	Class 2		

Normative in accordance to the **TCAM RIG II** templateInformative in accordance to the **TCAM RIG II** template

Interface Regulations

Point-to-point fixed links

Parameter	Description		Comment
Frequency band	55780 - 57000 MHz		
Radio Service	Fixed		
Application	Fixed Point-to-Point		
Channel / modulation	Channel spacing	3.5 MHz; 7 MHz; 14 MHz; 28 MHz; 56 MHz	
	Designation of emission		
	Modulation / Occupied bandwidth	digital	
	Reference frequency	TDD : 55 786 MHz FDD : 55 814 MHz	
Transmit power / Power density	Output power	as defined by the ETSI standard	
	Antenna Gain	as defined by the ETSI standard	
	Radiated power		
Channel access and occupation rules	Duty cycle		
	Access protocol		
	Trans. capacity	as defined by the ETSI standard	
Direction / Separation	TDD : None ; FDD : 616 MHz		
Authorisation regime	Individual licensing (bloc frequency assignment, individual frequency assignment)		
Add. essential requirements			
Freq. planning assumption	ERC REC 12-12		
Planned changes			
Reference	EN 302 217		
Remarks			
Notification number	2011/466/L		
Equipment class	Class 2		

Normative in accordance to the **TCAM RIG II** templateInformative in accordance to the **TCAM RIG II** template

Interface Regulations

Point-to-point fixed links

Parameter	Description		Comment
Frequency band	57000 - 64000 MHz		
Radio Service	Fixed		
Application	Fixed Point-to-Point		This band is foreseen for point-to-point fixed links applications.
Channel / modulation	Channel spacing	from 50 MHz up to 2500 MHz	
	Designation of emission		
	Modulation / Occupied bandwidth	digital	
	Reference frequency	56 950 MHz	
Transmit power / Power density	Output power	as defined by the ETSI standard	
	Antenna Gain	as defined by the ETSI standard	
	Radiated power		
Channel access and occupation rules	Duty cycle		
	Access protocol		
	Trans. capacity	as defined by the ETSI standard	
Direction / Separation	TDD/FDD		
Authorisation regime	Individual licensing (bloc frequency assignment, individual frequency assignment)		
Add. essential requirements			
Freq. planning assumption	ECC/REC (09)01		
Planned changes			
Reference			
Remarks	EN 302 217		
Notification number	2011/466/L		
Equipment class	Class 2		

Normative in accordance to the **TCAM RIG II** templateInformative in accordance to the **TCAM RIG II** template

Interface Regulations

Point-to-point fixed links

Parameter	Description		Comment
Frequency band	64000 - 66000 MHz		
Radio Service	Fixed		
Application	Fixed Point-to-Point		This band is foreseen for point-to-point fixed links applications
Channel / modulation	Channel spacing	from 50 MHz up to 2500 MHz	
	Designation of emission		
	Modulation / Occupied bandwidth	digital	
	Reference frequency		
Transmit power / Power density	Output power	as defined by the ETSI standard	
	Antenna Gain	as defined by the ETSI standard	
	Radiated power		
Channel access and occupation rules	Duty cycle		
	Access protocol		
	Trans. capacity	as defined by the ETSI standard	
Direction / Separation	TDD / FDD		
Authorisation regime	Individual licensing (bloc frequency assignment, individual frequency assignment)		
Add. essential requirements			
Freq. planning assumption	CEPT/ECC/REC 05-02		
Planned changes			
Reference	EN 302 217		
Remarks			
Notification number	2011/466/L		
Equipment class	Class 2		

Normative in accordance to the **TCAM RIG II** templateInformative in accordance to the **TCAM RIG II** template

Interface Regulations

Point-to-point fixed links

Parameter	Description		Comment
Frequency band	71000 - 76000 MHz		
Radio Service	Fixed		
Application	Fixed Point-to-Point		This band is foreseen for point-to-point fixed links applications
Channel / modulation	Channel spacing	from 250 MHz up to 1250 MHz	
	Designation of emission		
	Modulation / Occupied bandwidth	digital	
	Reference frequency		
Transmit power / Power density	Output power	as defined by the ETSI standard	
	Antenna Gain	as defined by the ETSI standard	
	Radiated power		
Channel access and occupation rules	Duty cycle		
	Access protocol		
	Trans. capacity	as defined by the ETSI standard	
Direction / Separation	TDD / FDD		
Authorisation regime	Individual licensing (bloc frequency assignment, individual frequency assignment)		
Add. essential requirements			
Freq. planning assumption	CEPT/ECC/REC 05-07		
Planned changes			
Reference	EN 302 217		
Remarks			
Notification number	2011/466/L		
Equipment class	Class 2		

Normative in accordance to the **TCAM RIG II** templateInformative in accordance to the **TCAM RIG II** template

Interface Regulations

Point-to-point fixed links

Parameter	Description		Comment
Frequency band	81000 - 86000 MHz		
Radio Service	Fixed		
Application	Fixed Point-to-Point		This band is foreseen for point-to-point fixed links applications
Channel / modulation	Channel spacing	from 250 MHz up to 1250 MHz	
	Designation of emission		
	Modulation / Occupied bandwidth	digital	
	Reference frequency		
Transmit power / Power density	Output power	as defined by the ETSI standard	
	Antenna Gain	as defined by the ETSI standard	
	Radiated power		
Channel access and occupation rules	Duty cycle		
	Access protocol		
	Trans. capacity	as defined by the ETSI standard	
Direction / Separation	TDD / FDD		
Authorisation regime	Individual licensing (bloc frequency assignment, individual frequency assignment)		
Add. essential requirements			
Freq. planning assumption	CEPT/ECC/REC 05-07		
Planned changes			
Reference	EN 302 217		
Remarks			
Notification number	2011/466/L		
Equipment class	Class 2		

Normative in accordance to the **TCAM RIG II** templateInformative in accordance to the **TCAM RIG II** template

Interface Regulations

Cordless Telephones

DECT

Parameter	Description		Comment
Frequency band	1880 - 1900 MHz		
Radio Service	<i>Mobile</i> <i>Land Mobile</i>		
Application	<i>Land mobile</i> <i>Cordless telephones</i> <i>DECT</i>		
Channel / modulation	Channel spacing	1728 MHz	
	Designation of emission		
	Modulation / Occupied bandwidth	Refer to EN 301 406	
	Reference frequency		
Transmit power / Power density	Output power		Type of antenna : integral or dedicated
	Antenna Gain		
	Radiated power	250 mW peak e.r.p.	
Channel access and occupation rules	Duty cycle		
	Access protocol		
	Trans. capacity	1152 kbit/s per carrier	
Direction / Separation			
Authorisation regime			
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	EN 301 406		
Remarks	Council Directive 91/287/EEC		
Notification number	2009/0375/L		Sub-class H10 of Class 2 covers other categories of DECT equipment
Equipment class	Class 1		Refer to Sub-class 18 (2000/299/EC)

Normative in accordance to the **TCAM RIG II** templateInformative in accordance to the **TCAM RIG II** template

Interface Regulations

Cordless Telephones

DECT

Parameter	Description		Comment
Frequency band	1880 - 1900 MHz		
Radio Service	<i>Mobile</i> <i>Land Mobile</i>		
Application	<i>Land mobile</i> <i>Cordless telephones</i> <i>DECT</i>		
Channel / modulation	Channel spacing	1728 MHz	
	Designation of emission		
	Modulation / Occupied bandwidth	Refer to EN 301 406	
	Reference frequency		
Transmit power / Power density	Output power		26 dBm eirp for omni-directional antennas 30 dBm eirp for directionall antennas
	Antenna Gain		
	Radiated power	250 mW (24 dBm) conducted 26 dBm eirp (see remark) 30 dBm eirp (see remark)	
Channel access and occupation rules	Duty cycle		Refer to EN 301 406
	Access protocol	Instant Dynamic Channel Selection	
	Trans. capacity		
Direction / Separation	TDD		Refer to EN 301 406
Authorisation regime			
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	EN 301 406 ECC/DEC(98)22 as amended		
Remarks	Council Directive 91/287/EEC		
Notification number	2014/450/L		
Equipment class	Class 2		Refer to Sub-class H10 (2000/299/EC)

Normative in accordance to the **TCAM RIG II** templateInformative in accordance to the **TCAM RIG II** template

Interface Regulations

Digital Cellular

R-GSM

Parameter	Description		Comment
Frequency band	876 - 880 MHz		
Radio Service	Mobile		
	Land Mobile		
Application	Land mobile		
	Digital cellular		
	GSM-R		
Channel / modulation	Channel spacing	200 kHz 12 kHz for DMO	
	Designation of emission		
	Modulation / Occupied bandwidth	For non DMO operation: Gaussian Minimum Shift Keying (GMSK) / 8-PSK	
	Reference frequency		
Transmit power / Power density	Output power		
	Antenna Gain		
	Radiated power		
Channel access and occupation rules	Duty cycle		
	Access protocol	TDMA (not for DMO operation)	
	Trans. capacity		
Direction / Separation	45 MHz		Terminal station transmit Repeater transmit / receive
Authorisation regime	Included in operator network licence.		
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	EN 301 511; EN 300 086 (DMO); EN 300 609-4 (repeaters); EN 301 419		
Remarks	Coupled with 921-925 MHz		
Notification number	2010/378/L		
Equipment class	Class 1		Refer to Sub-class 09b (2000/299/EC)

Normative in accordance to the **TCAM RIG II** templateInformative in accordance to the **TCAM RIG II** template

Interface Regulations

Digital Cellular

R-GSM

Parameter	Description		Comment
Frequency band	921 - 925 MHz		
Radio Service	Mobile		
	Land Mobile		
Application	Land mobile		
	Digital cellular		
	GSM-R		
Channel / modulation	Channel spacing	200 kHz	
	Designation of emission		
	Modulation / Occupied bandwidth	Gaussian Minimum Shift Keying (GMSK) / 8-PSK	
	Reference frequency		
Transmit power / Power density	Output power		
	Antenna Gain		
	Radiated power		
Channel access and occupation rules	Duty cycle		
	Access protocol	TDMA	
	Trans. capacity		
Direction / Separation	45 MHz		Base station transmit Repeater transmit / receive
Authorisation regime	Individual licensing		
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	EN 301 502; EN 300 609-4 (repeaters)		
Remarks	Coupled with 876-880 MHz		
Notification number	2010/378/L		
Equipment class	Class 2		

Normative in accordance to the **TCAM RIG II** templateInformative in accordance to the **TCAM RIG II** template

Interface Regulations

Digital Cellular

Mobile Communications services on Aircrafts

Parameter	Description		Comment
Frequency band	1710 - 1785 MHz		
Radio Service	<i>Mobile</i> <i>Land Mobile</i>		
Application	<i>Land mobile</i> <i>Digital cellular</i> <i>MCA</i>		
Channel / modulation	Channel spacing	200 kHz	
	Designation of emission		
	Modulation / Occupied bandwidth		
	Reference frequency		
Transmit power / Power density	Output power		
	Antenna Gain		
	Radiated power		
Channel access and occupation rules	Duty cycle		
	Access protocol		
	Trans. capacity		
Direction / Separation	95 MHz		
Authorisation regime			
Add. essential requirements	Decision 2008/294/EC, Decision 2013/654/EC		
Freq. planning assumption			
Planned changes			
Reference	EN 301 502 ; EN 301 511 ; EN 302 480		
Remarks	Coupled with 1805-1880 MHz		
Notification number	2014/450/L		
Equipment class	Class 2		

Normative in accordance to the **TCAM RIG II** templateInformative in accordance to the **TCAM RIG II** template

Interface Regulations

Digital Cellular

Mobile Communications services on Aircrafts

Parameter	Description		Comment
Frequency band	1805 - 1880 MHz		
Radio Service	Mobile		
	Land Mobile		
Application	Land mobile		
	Digital cellular		
	MCA		
Channel / modulation	Channel spacing	200 kHz	
	Designation of emission		
	Modulation / Occupied bandwidth		
	Reference frequency		
Transmit power / Power density	Output power		
	Antenna Gain		
	Radiated power		
Channel access and occupation rules	Duty cycle		
	Access protocol		
	Trans. capacity		
Direction / Separation	95 MHz		
Authorisation regime	Individual licensing for aircrafts registered in Luxembourg		
Add. essential requirements	Decision 2008/294/EC, Decision 2013/654/EC		
Freq. planning assumption			
Planned changes			
Reference	EN 301 502 ; EN 301 511 ; EN 302 480		
Remarks	Coupled with 1710-1785 MHz		
Notification number	2014/450/L		
Equipment class	Class 2		



Normative in accordance to the **TCAM RIG II** template



Informative in accordance to the **TCAM RIG II** template

Interface Regulations

Digital Cellular

Mobile Communications services on Aircrafts

Parameter	Description		Comment
Frequency band	1710 - 1785 MHz		
Radio Service	Mobile		
	Land Mobile		
Application	Land mobile		
	Digital cellular		
	MCA		
Channel / modulation	Channel spacing	1.4/3/5/10/15/20 MHz	
	Designation of emission		
	Modulation / Occupied bandwidth		
	Reference frequency		
Transmit power / Power density	Output power		
	Antenna Gain		
	Radiated power		
Channel access and occupation rules	Duty cycle		
	Access protocol		
	Trans. capacity		
Direction / Separation	95 MHz		
Authorisation regime			
Add. essential requirements	Decision 2013/654/EC		
Freq. planning assumption			
Planned changes			
Reference	EN 301 908-1 , EN 301 908-13, EN 301 908-14, EN 301 908-15		
Remarks	Coupled with 1805-1880 MHz		
Notification number	2014/450/L		
Equipment class	Class 2		



Normative in accordance to the **TCAM RIG II** template



Informative in accordance to the **TCAM RIG II** template

Interface Regulations

Digital Cellular

Mobile Communications services on Aircrafts

Parameter	Description		Comment
Frequency band	1805 - 1880 MHz		
Radio Service	Mobile		
	Land Mobile		
Application	Land mobile		
	Digital cellular		
	MCA		
Channel / modulation	Channel spacing	1.4/3/5/10/15/20 MHz	
	Designation of emission		
	Modulation / Occupied bandwidth		
	Reference frequency		
Transmit power / Power density	Output power		
	Antenna Gain		
	Radiated power		
Channel access and occupation rules	Duty cycle		
	Access protocol		
	Trans. capacity		
Direction / Separation	95 MHz		
Authorisation regime	Individual licensing for aircrafts registered in Luxembourg		
Add. essential requirements	Decision 2013/654/EC		
Freq. planning assumption			
Planned changes			
Reference	EN 301 908-1 , EN 301 908-13, EN 301 908-14, EN 301 908-15		
Remarks	Coupled with 1770-1785 MHz		
Notification number	2014/450/L		
Equipment class	Class 2		

Normative in accordance to the **TCAM RIG II** templateInformative in accordance to the **TCAM RIG II** template

Interface Regulations

Digital Cellular

Mobile Communications services on Aircrafts

Parameter	Description		Comment
Frequency band	1920 - 1980 MHz		
Radio Service	Mobile		
	Land Mobile		
Application	Land mobile		
	Digital cellular		
	MCA		
Channel / modulation	Channel spacing	5 MHz	
	Designation of emission		
	Modulation / Occupied bandwidth		
	Reference frequency		
Transmit power / Power density	Output power		
	Antenna Gain		
	Radiated power		
Channel access and occupation rules	Duty cycle		
	Access protocol		
	Trans. capacity		
Direction / Separation	190 MHz		
Authorisation regime			
Add. essential requirements	Decision 2013/654/EC		
Freq. planning assumption			
Planned changes			
Reference	EN 301 908-1 , EN 301 908-2, EN 301 908-3, EN 301 908-11		
Remarks	Coupled with 2110-2170 MHz		
Notification number	2014/450/L		
Equipment class	Class 2		



Normative in accordance to the **TCAM RIG II** template



Informative in accordance to the **TCAM RIG II** template

Interface Regulations

Digital Cellular

Mobile Communications services on Aircrafts

Parameter	Description		Comment
Frequency band	2110 - 2170 MHz		
Radio Service	<i>Mobile</i> <i>Land Mobile</i>		
Application	<i>Land mobile</i> <i>Digital cellular</i> <i>MCA</i>		
Channel / modulation	Channel spacing	5 MHz	
	Designation of emission		
	Modulation / Occupied bandwidth		
	Reference frequency		
Transmit power / Power density	Output power		
	Antenna Gain		
	Radiated power		
Channel access and occupation rules	Duty cycle		
	Access protocol		
	Trans. capacity		
Direction / Separation	190 MHz		
Authorisation regime	Individual licensing for aircrafts registered in Luxembourg		
Add. essential requirements	Decision 2013/654/EC		
Freq. planning assumption			
Planned changes			
Reference	EN 301 908-1 , EN 301 908-2, EN 301 908-3, EN 301 908-11		
Remarks	Coupled with 1920-1980 MHz		
Notification number	2014/450/L		
Equipment class	Class 2		

Normative in accordance to the **TCAM RIG II** templateInformative in accordance to the **TCAM RIG II** template

Interface Regulations

Digital Cellular

Aircraft Earth Stations

Parameter	Description		Comment
Frequency band	10700 - 11700 MHz		
Radio Service	Mobile-Satellite		
	Aeronautical Mobile-Satellite		
Application	Land mobile		
	Digital cellular		
	AES		
Channel / modulation	Channel spacing		
	Designation of emission		
	Modulation / Occupied bandwidth		
	Reference frequency		
Transmit power / Power density	Output power		
	Antenna Gain		
	Radiated power	Refer to sub-class 12	
Channel access and occupation rules	Duty cycle		
	Access protocol		
	Trans. capacity		
Direction / Separation			
Authorisation regime	Free circulation and use.		
Add. essential requirements			
Freq. planning assumption	ITU Regulations		
Planned changes			
Reference	EN 302 186 ECC/DEC(05)11		
Remarks			
Notification number	2013/216/L		
Equipment class	Class 1		Refer to sub-class 12 (2000/299/EC)

Normative in accordance to the **TCAM RIG II** templateInformative in accordance to the **TCAM RIG II** template

Interface Regulations

Digital Cellular

Aircraft Earth Stations

Parameter	Description		Comment
Frequency band	12500 - 12750 MHz		
Radio Service	Mobile-Satellite		
	Aeronautical Mobile-Satellite		
Application	Land mobile		
	Digital cellular		
	AES		
Channel / modulation	Channel spacing		
	Designation of emission		
	Modulation / Occupied bandwidth		
	Reference frequency		
Transmit power / Power density	Output power		
	Antenna Gain		
	Radiated power	Refer to sub-class 12	
Channel access and occupation rules	Duty cycle		
	Access protocol		
	Trans. capacity		
Direction / Separation			
Authorisation regime	Free circulation and use.		
Add. essential requirements			
Freq. planning assumption	ITU Regulations		
Planned changes			
Reference	EN 302 186 ECC/DEC(05)11		
Remarks			
Notification number	2013/216/L		
Equipment class	Class 1		Refer to sub-class 12 (2000/299/EC)

Normative in accordance to the **TCAM RIG II** templateInformative in accordance to the **TCAM RIG II** template

Interface Regulations

Digital Cellular

Aircraft Earth Stations

Parameter	Description		Comment
Frequency band	14000 - 14250 MHz		
Radio Service	Mobile-Satellite		
	Aeronautical Mobile-Satellite		
Application	Land mobile		
	Digital cellular		
	AES		
Channel / modulation	Channel spacing		
	Designation of emission		
	Modulation / Occupied bandwidth		
	Reference frequency		
Transmit power / Power density	Output power		
	Antenna Gain		
	Radiated power	Refer to sub-class 12	
Channel access and occupation rules	Duty cycle		
	Access protocol		
	Trans. capacity		
Direction / Separation			
Authorisation regime	Free circulation and use.		
Add. essential requirements			
Freq. planning assumption	ITU Regulations		
Planned changes			
Reference	EN 302 186 ECC/DEC(05)11		
Remarks			
Notification number	2013/216/L		
Equipment class	Class 1		Refer to sub-class 12 (2000/299/EC)

Normative in accordance to the **TCAM RIG II** templateInformative in accordance to the **TCAM RIG II** template

Interface Regulations

Digital Cellular

Aircraft Earth Stations

Parameter	Description		Comment
Frequency band	14250 - 14500 MHz		
Radio Service	Mobile-Satellite		
	Aeronautical Mobile-Satellite		
Application	Land mobile		
	Digital cellular		
	AES		
Channel / modulation	Channel spacing		
	Designation of emission		
	Modulation / Occupied bandwidth		
	Reference frequency		
Transmit power / Power density	Output power		
	Antenna Gain		
	Radiated power	Max. 50 dBW	
Channel access and occupation rules	Duty cycle		
	Access protocol		
	Trans. capacity		
Direction / Separation			
Authorisation regime	Free circulation and use.		
Add. essential requirements			
Freq. planning assumption	ITU Regulations		
Planned changes			
Reference	EN 302 186 ECC/DEC(05)11		
Remarks			
Notification number	2013/216/L		
Equipment class	Class 2		

Normative in accordance to the **TCAM RIG II** templateInformative in accordance to the **TCAM RIG II** template

Interface Regulations

Terrestrial systems capable of providing ECS

E-GSM

Parameter	Description		Comment
Frequency band	880 - 890 MHz		
Radio Service	<i>Mobile</i> <i>Land Mobile</i>		
Application	<i>Land mobile</i> <i>Digital cellular</i> <i>GSM</i>		
Channel / modulation	Channel spacing	200 kHz	
	Designation of emission		
	Modulation / Occupied bandwidth	Gaussian Minimum Shift Keying (GMSK) / 8-PSK	
	Reference frequency		
Transmit power / Power density	Output power		
	Antenna Gain		
	Radiated power		
Channel access and occupation rules	Duty cycle		
	Access protocol	TDMA	
	Trans. capacity		
Direction / Separation	45 MHz		Terminal station transmit Repeater transmit / receive
Authorisation regime	Included in operator network licence.		
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	EN 301 511; EN 300 609-4 (repeaters)		
Remarks	Coupled with 925 - 935 MHz		
Notification number	2010/378/L		
Equipment class	Class 1		Refer to Sub-class 09a (2000/299/EC)

Normative in accordance to the **TCAM RIG II** templateInformative in accordance to the **TCAM RIG II** template

Interface Regulations

Terrestrial systems capable of providing ECS

E-GSM

Parameter	Description		Comment
Frequency band	925 - 935 MHz		
Radio Service	<i>Mobile</i> <i>Land Mobile</i>		
Application	<i>Land mobile</i> <i>Digital cellular</i> <i>GSM</i>		
Channel / modulation	Channel spacing	200 kHz	
	Designation of emission		
	Modulation / Occupied bandwidth	Gaussian Minimum Shift Keying (GMSK) / 8-PSK	
	Reference frequency		
Transmit power / Power density	Output power		
	Antenna Gain		
	Radiated power		
Channel access and occupation rules	Duty cycle		
	Access protocol	TDMA	
	Trans. capacity		
Direction / Separation	45 MHz		<i>Base station transmit</i> <i>Repeater transmit / receive</i>
Authorisation regime	Individual licensing		
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	EN 301 502; EN 300 609-4 (repeaters)		
Remarks	Coupled with 880 - 890 MHz		
Notification number	2010/378/L		
Equipment class	Class 2		

Normative in accordance to the **TCAM RIG II** templateInformative in accordance to the **TCAM RIG II** template

Interface Regulations

Terrestrial systems capable of providing ECS

P-GSM

Parameter	Description		Comment
Frequency band	890 - 915 MHz		
Radio Service	<i>Mobile</i> <i>Land Mobile</i>		
Application	<i>Land mobile</i> <i>Digital cellular</i> <i>GSM</i>		
Channel / modulation	Channel spacing	200 kHz	
	Designation of emission		
	Modulation / Occupied bandwidth	Gaussian Minimum Shift Keying (GMSK) / 8-PSK	
	Reference frequency		
Transmit power / Power density	Output power		
	Antenna Gain		
	Radiated power		
Channel access and occupation rules	Duty cycle		
	Access protocol	TDMA	
	Trans. capacity		
Direction / Separation	45 MHz		Terminal station transmit Repeater transmit / receive
Authorisation regime	Included in operator network licence.		
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	EN 301 511; EN 300 609-4 (repeaters)		
Remarks	Coupled with 935-960 MHz		
Notification number	2010/378/L		
Equipment class	Class 1		Refer to Sub-class 09a (2000/299/EC)

Normative in accordance to the **TCAM RIG II** templateInformative in accordance to the **TCAM RIG II** template

Interface Regulations

Terrestrial systems capable of providing ECS

P-GSM

Parameter	Description		Comment
Frequency band	935 - 960 MHz		
Radio Service	<i>Mobile</i> <i>Land Mobile</i>		
Application	<i>Land mobile</i> <i>Digital cellular</i> <i>GSM</i>		
Channel / modulation	Channel spacing	200 kHz	
	Designation of emission		
	Modulation / Occupied bandwidth	Gaussian Minimum Shift Keying (GMSK) / 8-PSK	
	Reference frequency		
Transmit power / Power density	Output power		
	Antenna Gain		
	Radiated power		
Channel access and occupation rules	Duty cycle		
	Access protocol	TDMA	
	Trans. capacity		
Direction / Separation	45 MHz		Base station transmit Repeater transmit / receive
Authorisation regime	Individual licensing		
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	EN 301 502; EN 300 609-4 (repeaters)		
Remarks	Coupled with 890-915 MHz		
Notification number	2010/378/L		
Equipment class	Class 2		

Normative in accordance to the **TCAM RIG II** templateInformative in accordance to the **TCAM RIG II** template

Interface Regulations

Terrestrial systems capable of providing ECS

GSM 1800

Parameter	Description		Comment
Frequency band	1710 - 1785 MHz		
Radio Service	<i>Mobile</i> <i>Land Mobile</i>		
Application	<i>Land mobile</i> <i>Digital cellular</i> <i>GSM</i>		
Channel / modulation	Channel spacing	200 kHz	
	Designation of emission		
	Modulation / Occupied bandwidth	Gaussian Minimum Shift Keying (GMSK) / 8- PSK	
	Reference frequency		
Transmit power / Power density	Output power		
	Antenna Gain		
	Radiated power		
Channel access and occupation rules	Duty cycle		
	Access protocol	TDMA	
	Trans. capacity		
Direction / Separation	95 MHz		Terminal station transmit Repeater transmit / receive
Authorisation regime	Included in operator network licence.		
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	EN 301 511; EN 300 609-4 (repeaters)		
Remarks	Coupled with 1805-1880 MHz		
Notification number	2010/378/L		
Equipment class	Class 1		Refer to Sub-class 09a (2000/299/EC)

Normative in accordance to the **TCAM RIG II** templateInformative in accordance to the **TCAM RIG II** template

Interface Regulations

Terrestrial systems capable of providing ECS

GSM 1800

Parameter	Description		Comment
Frequency band	1805 - 1880 MHz		
Radio Service	<i>Mobile</i> <i>Land Mobile</i>		
Application	<i>Land mobile</i> <i>Digital cellular</i> <i>GSM</i>		
Channel / modulation	Channel spacing	200 kHz	
	Designation of emission		
	Modulation / Occupied bandwidth	Minimum Shift Keying (GMSK) / 8- PSK	
	Reference frequency		
Transmit power / Power density	Output power		
	Antenna Gain		
	Radiated power		
Channel access and occupation rules	Duty cycle		
	Access protocol	TDMA	
	Trans. capacity		
Direction / Separation	95 MHz		Base station transmit Repeater transmit / receive
Authorisation regime	Individual licensing		
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	EN 301 502; EN 300 609-4 (repeaters)		
Remarks	Coupled with 1710-1785 MHz		
Notification number	2010/378/L		
Equipment class	Class 2		

Normative in accordance to the **TCAM RIG II** templateInformative in accordance to the **TCAM RIG II** template

Interface Regulations

Terrestrial systems capable of providing ECS

UMTS

Parameter	Description		Comment
Frequency band	880 - 915 MHz		
Radio Service	<i>Mobile</i> <i>Land Mobile</i>		
Application	<i>Land mobile</i> <i>Digital cellular</i> <i>IMT</i>		
Channel / modulation	Channel spacing	5 MHz/200 kHz channel raster	Carrier separation of 5 MHz or more between two neighbouring UMTS networks
	Designation of emission		
	Modulation / Occupied bandwidth	QPSK	Carrier separation of 2.8 MHz or more between a neighbouring UMTS network and a GSM network
	Reference frequency		
Transmit power / Power density	Output power		
	Antenna Gain		
	Radiated power		
Channel access and occupation rules	Duty cycle		
	Access protocol	CDMA	
	Trans. capacity		
Direction / Separation	45 MHz		Terminal station transmit Repeater transmit/receive
Authorisation regime	Included in operator network licence.		
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	EN 301 908-2; EN 301 908-11		
Remarks	Coupled with 925 - 960 MHz		
Notification number	2010/378/L		
Equipment class	Class 1		Refer to Sub-class 09a (2000/299/EC)

Normative in accordance to the **TCAM RIG II** templateInformative in accordance to the **TCAM RIG II** template

Interface Regulations

Terrestrial systems capable of providing ECS

UMTS

Parameter	Description		Comment
Frequency band	925 - 960 MHz		
Radio Service	<i>Mobile</i> <i>Land Mobile</i>		
Application	<i>Land mobile</i> <i>Digital cellular</i> <i>IMT</i>		
Channel / modulation	Channel spacing	5 MHz/200 kHz channel raster	Carrier separation of 5 MHz or more between two neighbouring UMTS networks
	Designation of emission		
	Modulation / Occupied bandwidth	QPSK / 16 QAM	Carrier separation of 2.8 MHz or more between a neighbouring UMTS network and a GSM network
	Reference frequency		
Transmit power / Power density	Output power		
	Antenna Gain		
	Radiated power		
Channel access and occupation rules	Duty cycle		
	Access protocol	CDMA	
	Trans. capacity		
Direction / Separation	45 MHz		Base station transmit Repeater transmit/receive
Authorisation regime	Individual licensing		
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	EN 301 908-3; EN 301 908-11		
Remarks	Coupled with 880 - 915 MHz		
Notification number	2010/378/L		
Equipment class	Class 2		

Normative in accordance to the **TCAM RIG II** templateInformative in accordance to the **TCAM RIG II** template

Interface Regulations

Terrestrial systems capable of providing ECS

UMTS

Parameter	Description		Comment
Frequency band	1710 - 1785 MHz		
Radio Service	<i>Mobile</i> <i>Land Mobile</i>		
Application	<i>Land mobile</i> <i>Digital cellular</i> <i>IMT</i>		
Channel / modulation	Channel spacing	5 MHz/200 kHz channel raster	Carrier separation of 5 MHz or more between two neighbouring UMTS networks
	Designation of emission		
	Modulation / Occupied bandwidth	QPSK	Carrier separation of 2.8 MHz or more between a neighbouring UMTS network and a GSM network
	Reference frequency		
Transmit power / Power density	Output power		
	Antenna Gain		
	Radiated power		
Channel access and occupation rules	Duty cycle		
	Access protocol	CDMA	
	Trans. capacity		
Direction / Separation	95 MHz		Terminal station transmit Repeater transmit/receive
Authorisation regime	Included in operator network licence.		
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	EN 301 908-2; EN 301 908-11		
Remarks	Coupled with 1805 - 1880 MHz		
Notification number	2010/378/L		
Equipment class	Class 1		Refer to Sub-class 09a (2000/299/EC)

Normative in accordance to the **TCAM RIG II** templateInformative in accordance to the **TCAM RIG II** template

Interface Regulations

Terrestrial systems capable of providing ECS

UMTS

Parameter	Description		Comment
Frequency band	1805 - 1880 MHz		
Radio Service	<i>Mobile</i> <i>Land Mobile</i>		
Application	<i>Land mobile</i> <i>Digital cellular</i> <i>IMT</i>		
Channel / modulation	Channel spacing	5 MHz/200 kHz channel raster	Carrier separation of 5 MHz or more between two neighbouring UMTS networks
	Designation of emission		
	Modulation / Occupied bandwidth	QPSK / 16 QAM	Carrier separation of 2.8 MHz or more between a neighbouring UMTS network and a GSM network
	Reference frequency		
Transmit power / Power density	Output power		
	Antenna Gain		
	Radiated power		
Channel access and occupation rules	Duty cycle		
	Access protocol	CDMA	
	Trans. capacity		
Direction / Separation	95 MHz		Base station transmit Repeater transmit/receive
Authorisation regime	Individual licensing		
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	EN 301 908-8; EN 301 908-11; EC Decision 2009/766/EC		
Remarks	Coupled with 1710 - 1785 MHz		
Notification number	2010/378/L		
Equipment class	Class 2		

Normative in accordance to the **TCAM RIG II** templateInformative in accordance to the **TCAM RIG II** template

Interface Regulations

Terrestrial systems capable of providing ECS

UMTS

Parameter	Description		Comment
Frequency band	1920 - 1980 MHz		Commission decision of 5 November 2012 on the harmonisation of 1920-1980 MHz and 2110-2170 MHz for ECS in the Union (2012/688/EU)
Radio Service	Mobile ----- Land Mobile -----		
Application	Land mobile ----- Digital cellular ----- IMT		
Channel / modulation	Channel spacing	5 MHz 200 kHz channel raster	
	Designation of emission		
	Modulation / Occupied bandwidth	QPSK	
	Reference frequency		
Transmit power / Power density	Output power		
	Antenna Gain		
	Radiated power		
Channel access and occupation rules	Duty cycle		
	Access protocol	CDMA	
	Trans. capacity		
Direction / Separation	190 MHz		Terminal station transmit Repeater transmit/receive
Authorisation regime	Included in operator network licence.		
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	EN 301 908-2; EN 301 908-11; Commission decision 2012/688/EU; ECC/DEC(06)01		
Remarks	Coupled with 2110-2170 MHz		
Notification number	2010/378/L		
Equipment class	Class 1		Refer to Sub-class 09a (2000/299/EC)

Normative in accordance to the **TCAM RIG II** templateInformative in accordance to the **TCAM RIG II** template

Interface Regulations

Terrestrial systems capable of providing ECS

UMTS

Parameter	Description		Comment
Frequency band	2110 - 2170 MHz		Commission decision of 5 November 2012 on the harmonisation of 1920-1980 MHz and 2110-2170 MHz for ECS in the Union (2012/688/EU)
Radio Service	<i>Mobile</i> <i>Land Mobile</i>		
Application	<i>Land mobile</i> <i>Digital cellular</i> <i>IMT</i>		
Channel / modulation	Channel spacing	5 MHz 200 kHz channel raster	
	Designation of emission		
	Modulation / Occupied bandwidth	QPSK / 16 QAM	
	Reference frequency		
Transmit power / Power density	Output power		
	Antenna Gain		
	Radiated power		
Channel access and occupation rules	Duty cycle		
	Access protocol	CDMA	
	Trans. capacity		
Direction / Separation	190 MHz		Base station transmit Repeater transmit/receive
Authorisation regime	Individual licensing		
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	EN 301 908-3; EN 301 908-11; Commission decision 2012/688/EU; ECC/DEC(06)01		
Remarks	Coupled with 1920-1980 MHz		
Notification number	2010/378/L		
Equipment class	Class 2		

Normative in accordance to the **TCAM RIG II** templateInformative in accordance to the **TCAM RIG II** template

Interface Regulations

Terrestrial systems capable of providing ECS

MFCN

Parameter	Description		Comment
Frequency band	2500 - 2570 MHz		Harmonised radio spectrum (2008/477/EC)
Radio Service	Mobile Land Mobile		
Application	Land mobile MFCN		
Channel / modulation	Channel spacing		
	Designation of emission		
	Modulation / Occupied bandwidth		
	Reference frequency		
Transmit power / Power density	Output power		
	Antenna Gain		
	Radiated power		
Channel access and occupation rules	Duty cycle		
	Access protocol		
	Trans. capacity		
Direction / Separation	Paired carrier 120 MHz above		Terminal station transmit Repeater transmit/receive
Authorisation regime	Included in operator network licence.		Limits according to the annex of EC Decision 2008/477/EC are applicable.
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	EN 301 908-2; EN 301 908-13; EN 301 908-11; EC Decision 2008/477/EC		
Remarks	Frequency band coupled to 2620-2690 MHz		
Notification number	2010/378/L		
Equipment class	Class 1		Refer to Sub-class 09a (2000/299/EC)

Normative in accordance to the **TCAM RIG II** templateInformative in accordance to the **TCAM RIG II** template

Interface Regulations

Terrestrial systems capable of providing ECS

MFCN

Parameter	Description		Comment
Frequency band	2620 - 2690 MHz		Harmonised radio spectrum (2008/477/EC)
Radio Service	Mobile Land Mobile		
Application	Land mobile MFCN		
Channel / modulation	Channel spacing		
	Designation of emission		
	Modulation / Occupied bandwidth		
	Reference frequency		
Transmit power / Power density	Output power		
	Antenna Gain		
	Radiated power		
Channel access and occupation rules	Duty cycle		
	Access protocol		
	Trans. capacity		
Direction / Separation	Paired carrier 120 MHz above		Base station transmit Repeater transmit/receive
Authorisation regime	Individual licensing		Limits according to the annex of EC Decision 2008/477/EC are applicable.
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	EN 301 908-3; EN 301 908-14; EN 301 908-11; EC Decision 2008/477/EC		
Remarks	Frequency band coupled to 2500-2570 MHz		
Notification number	2010/378/L		
Equipment class	Class 2		

Normative in accordance to the **TCAM RIG II** templateInformative in accordance to the **TCAM RIG II** template

Interface Regulations

Terrestrial systems capable of providing ECS

MFCN

Parameter	Description		Comment
Frequency band	2500 - 2570 MHz		Harmonised radio spectrum (2008/477/EC)
Radio Service	Mobile Land Mobile		
Application	Land mobile MFCN		
Channel / modulation	Channel spacing		
	Designation of emission		
	Modulation / Occupied bandwidth		
	Reference frequency		
Transmit power / Power density	Output power		
	Antenna Gain		
	Radiated power		
Channel access and occupation rules	Duty cycle		
	Access protocol		
	Trans. capacity		
Direction / Separation			Time-Division-Duplex TDD Terminal, Base Station and repeater transmit and receive
Authorisation regime	Individual licensing		Limits according to the annex of EC Decision 2008/477/EC are applicable.
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	EN 301 908-6; EN 301 908-7; EN 301 908-13; EN 301 908-14; EN 302 544-1; EC Decision 2008/477/EC		
Remarks			
Notification number	2010/378/L		
Equipment class	Class 2		

Normative in accordance to the **TCAM RIG II** templateInformative in accordance to the **TCAM RIG II** template

Interface Regulations

Terrestrial systems capable of providing ECS

MFCN

Parameter	Description		Comment
Frequency band	2570 - 2620 MHz		Harmonised radio spectrum (2008/477/EC)
Radio Service	Mobile ----- Land Mobile -----		
Application	Land mobile ----- MFCN -----		
Channel / modulation	Channel spacing	-----	
	Designation of emission	-----	
	Modulation / Occupied bandwidth	-----	
	Reference frequency	-----	
Transmit power / Power density	Output power	-----	
	Antenna Gain	-----	
	Radiated power	-----	
Channel access and occupation rules	Duty cycle	-----	
	Access protocol	-----	
	Trans. capacity	-----	
Direction / Separation			Time-Division-Duplex TDD Terminal, Base Station and repeater transmit and receive
Authorisation regime	Individual licensing		Limits according to the annex of EC Decision 2008/477/EC are applicable.
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	EN 301 908-6; EN 301 908-7; EN 301 908-13; EN 301 908-14; EN 302 544-1; EC Decision 2008/477/EC		
Remarks			
Notification number	2010/378/L		
Equipment class	Class 2		

Normative in accordance to the **TCAM RIG II** templateInformative in accordance to the **TCAM RIG II** template

Interface Regulations

Terrestrial systems capable of providing ECS

MFCN

Parameter	Description		Comment
Frequency band	2620 - 2690 MHz		Harmonised radio spectrum (2008/477/EC)
Radio Service	Mobile ----- Land Mobile -----		
Application	Land mobile ----- MFCN -----		
Channel / modulation	Channel spacing	-----	
	Designation of emission	-----	
	Modulation / Occupied bandwidth	-----	
	Reference frequency	-----	
Transmit power / Power density	Output power	-----	
	Antenna Gain	-----	
	Radiated power	-----	
Channel access and occupation rules	Duty cycle	-----	
	Access protocol	-----	
	Trans. capacity	-----	
Direction / Separation			Time-Division-Duplex TDD Terminal, Base Station and repeater transmit and receive
Authorisation regime	Individual licensing		Limits according to the annex of EC Decision 2008/477/EC are applicable.
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	EN 301 908-6; EN 301 908-7; EN 301 908-13; EN 301 908-14; EN 302 544-1; EC Decision 2008/477/EC		
Remarks			
Notification number	2010/378/L		
Equipment class	Class 2		

Normative in accordance to the **TCAM RIG II** templateInformative in accordance to the **TCAM RIG II** template

Interface Regulations

Terrestrial systems capable of providing ECS

MFCN

Parameter	Description		Comment
Frequency band	3410 - 3490 MHz		Harmonised radio spectrum (EC Decision 2014/276/EU)
Radio Service	Mobile Land Mobile -----		
Application	Land mobile MFCN -----		
Channel / modulation	Channel spacing	Ch. Raster: 100 kHz	
	Designation of emission	-----	
	Modulation / Occupied bandwidth	-----	
	Reference frequency	-----	
Transmit power / Power density	Output power	-----	
	Antenna Gain	-----	
	Radiated power	-----	
Channel access and occupation rules	Duty cycle	-----	
	Access protocol	-----	
	Trans. capacity	-----	
Direction / Separation	Paired carrier 100 MHz above		Terminal station transmit Repeater transmit/receive
Authorisation regime	Included in operator network licence		Technical conditions (Limits) according to the annex of EC Decision 2014/276/EU are applicable.
Add. essential requirements			
Freq. planning assumption	EC Decision 2008/411/EC, 2014/276/EU		
Planned changes			
Reference	EN 301 908 EC Decision 2008/411/EC, 2014/276/EU		
Remarks	Frequency band coupled to 3510-3590 MHz		
Notification number	2016/7/L		
Equipment class	Class 1		Refer to Sub-class 09a (2000/299/EC)

Normative in accordance to the **TCAM RIG II** templateInformative in accordance to the **TCAM RIG II** template

Interface Regulations

Terrestrial systems capable of providing ECS

MFCN

Parameter	Description		Comment
Frequency band	3510 - 3590 MHz		Harmonised radio spectrum (EC Decision 2014/276/EU)
Radio Service	Mobile Land Mobile -----		
Application	Land mobile MFCN -----		
Channel / modulation	Channel spacing	Ch. Raster: 100 kHz	
	Designation of emission	-----	
	Modulation / Occupied bandwidth	-----	
	Reference frequency	-----	
Transmit power / Power density	Output power	-----	
	Antenna Gain	-----	
	Radiated power	-----	
Channel access and occupation rules	Duty cycle	-----	
	Access protocol	-----	
	Trans. capacity	-----	
Direction / Separation	Paired carrier 100 MHz below		Base station transmit Repeater transmit/receive
Authorisation regime	Individual licensing		Technical conditions (Limits) according to the annex of EC Decision 2014/276/EU are applicable.
Add. essential requirements			
Freq. planning assumption	EC Decision 2008/411/EC, 2014/276/EU		
Planned changes			
Reference	EN 301 908 EC Decision 2008/411/EC, 2014/276/EU		
Remarks	Frequency band coupled to 3410-3490 MHz		
Notification number	2016/7/L		
Equipment class	Class 2		

Normative in accordance to the **TCAM RIG II** templateInformative in accordance to the **TCAM RIG II** template

Interface Regulations

Terrestrial systems capable of providing ECS

MFCN

Parameter	Description		Comment
Frequency band	3400 - 3600 MHz		Harmonised radio spectrum (EC Decision 2014/276/EU)
Radio Service	Mobile Land Mobile -----		
Application	Land mobile MFCN -----		
Channel / modulation	Channel spacing	Ch. Raster: 100 kHz	
	Designation of emission	-----	
	Modulation / Occupied bandwidth	-----	
	Reference frequency	-----	
Transmit power / Power density	Output power	-----	
	Antenna Gain	-----	
	Radiated power	-----	
Channel access and occupation rules	Duty cycle	-----	
	Access protocol	-----	
	Trans. capacity	-----	
Direction / Separation			Time-Division-Duplex TDD Terminal, Base Station and repeater transmit and receive
Authorisation regime	Individual licensing		Technical conditions (Limits) according to the annex of EC Decision 2014/276/EU are applicable.
Add. essential requirements			
Freq. planning assumption	EC Decision 2008/411/EC, 2014/276/EU		
Planned changes			
Reference	EN 301 908 EC Decision 2008/411/EC, 2014/276/EU		
Remarks			
Notification number	2016/7/L		
Equipment class	Class 2		

Normative in accordance to the **TCAM RIG II** templateInformative in accordance to the **TCAM RIG II** template

Interface Regulations

Terrestrial systems capable of providing ECS

MFCN

Parameter	Description		Comment
Frequency band	3600 - 3800 MHz		Harmonised radio spectrum (EC Decision 2014/276/EU)
Radio Service	Mobile Land Mobile -----		
Application	Land mobile MFCN -----		
Channel / modulation	Channel spacing	Ch. Raster: 100 kHz	
	Designation of emission	-----	
	Modulation / Occupied bandwidth	-----	
	Reference frequency	-----	
Transmit power / Power density	Output power	-----	
	Antenna Gain	-----	
	Radiated power	-----	
Channel access and occupation rules	Duty cycle	-----	
	Access protocol	-----	
	Trans. capacity	-----	
Direction / Separation			Time-Division-Duplex TDD Terminal, Base Station and repeater transmit and receive
Authorisation regime	Individual licensing		Technical conditions (Limits) according to the annex of EC Decision 2014/276/EU are applicable.
Add. essential requirements			
Freq. planning assumption	EC Decision 2008/411/EC, 2014/276/EU		
Planned changes			
Reference	EN 301 908 EC Decision 2008/411/EC, 2014/276/EU		
Remarks			
Notification number	2016/7/L		
Equipment class	Class 2		

Normative in accordance to the **TCAM RIG II** templateInformative in accordance to the **TCAM RIG II** template

Interface Regulations

Terrestrial systems capable of providing ECS

TRA-ECS

Parameter	Description		Comment
Frequency band	791 - 821 MHz		Harmonised technical conditions of use in the 790-862 MHz frequency band for terrestrial systems capable of providing electronic communications services in the European Union (2010/267/EU).
Radio Service	Mobile ----- Mobile except aeronautical mobile -----		
Application	TRA-ECS -----		
Channel / modulation	Channel spacing	Ch. raster: 100 kHz	
	Designation of emission		
	Modulation / Occupied bandwidth		
	Reference frequency		
Transmit power / Power density	Output power		
	Antenna Gain		
	Radiated power		
Channel access and occupation rules	Duty cycle		
	Access protocol		
	Trans. capacity		
Direction / Separation	Paired carrier 41 MHz above -----		Base station transmit Repeater transmit/receive
Authorisation regime	Individual licensing		Limits according to the annex of EC Decision 2010/267/EU are applicable.
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	EN 301 908-3, EN 301 908-13, EN 301 908-21 EC Decision 2010/267/EU		
Remarks	Frequency band coupled with 832-862 MHz		
Notification number	2012/305/L		
Equipment class	Class 2		

Normative in accordance to the **TCAM RIG II** templateInformative in accordance to the **TCAM RIG II** template

Interface Regulations

Terrestrial systems capable of providing ECS

TRA-ECS

Parameter	Description		Comment
Frequency band	832 - 862 MHz		Harmonised technical conditions of use in the 790-862 MHz frequency band for terrestrial systems capable of providing electronic communications services in the European Union (2010/267/EU).
Radio Service	Mobile ----- Mobile except aeronautical mobile -----		
Application	TRA-ECS ----- -----		
Channel / modulation	Channel spacing	Ch. raster: 100 kHz	
	Designation of emission	-----	
	Modulation / Occupied bandwidth	-----	
	Reference frequency	-----	
Transmit power / Power density	Output power	-----	
	Antenna Gain	-----	
	Radiated power	-----	
Channel access and occupation rules	Duty cycle	-----	
	Access protocol	-----	
	Trans. capacity	-----	
Direction / Separation	Paired carrier 41 MHz below		Terminal transmit Repeater transmit/receive
Authorisation regime	Included in operator network licence		Limits according to the annex of EC Decision 2010/267/EU are applicable.
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	EN 301 908-2, EN 301 908-14, EN 301 908-22 EC Decision 2010/267/EU		
Remarks	Frequency band coupled with 791-821 MHz		
Notification number	2012/305/L		
Equipment class	Class 1		Refer to Sub-class 09a (2000/299/EC)

Normative in accordance to the **TCAM RIG II** templateInformative in accordance to the **TCAM RIG II** template

Interface Regulations

Terrestrial systems capable of providing ECS

TRA-ECS

Parameter	Description		Comment
Frequency band	880 - 915 MHz		Harmonisation of the 900 MHz and 1 800 MHz frequency bands for terrestrial systems capable of providing pan-European electronic communications services in the Community (2011/251/EU)
Radio Service	Mobile ----- Mobile except aeronautical mobile -----		
Application	TRA-ECS ----- -----		
Channel / modulation	Channel spacing	Ch. raster: 100 kHz	
	Designation of emission	-----	
	Modulation / Occupied bandwidth	-----	
	Reference frequency	-----	
Transmit power / Power density	Output power	-----	
	Antenna Gain	-----	
	Radiated power	-----	
Channel access and occupation rules	Duty cycle	-----	
	Access protocol	-----	
	Trans. capacity	-----	
Direction / Separation	Paired carrier 45 MHz above		Terminal transmit Repeater transmit/receive
Authorisation regime	Included in operator network licence		
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	EN 301 908-13, EN 301 908-21 EC Decision 2011/251/EU		
Remarks	Frequency band coupled with 925-960 MHz		
Notification number	2012/305/L		
Equipment class	Class 1		Refer to Sub-class 09a (2000/299/EC)

Normative in accordance to the **TCAM RIG II** templateInformative in accordance to the **TCAM RIG II** template

Interface Regulations

Terrestrial systems capable of providing ECS

TRA-ECS

Parameter	Description		Comment
Frequency band	925 - 960 MHz		Harmonisation of the 900 MHz and 1 800 MHz frequency bands for terrestrial systems capable of providing pan-European electronic communications services in the Community (2011/251/EU)
Radio Service	Mobile Mobile except aeronautical mobile		
Application	TRA-ECS		
Channel / modulation	Channel spacing	Ch. raster: 100 kHz	
	Designation of emission		
	Modulation / Occupied bandwidth		
	Reference frequency		
Transmit power / Power density	Output power		
	Antenna Gain		
	Radiated power		
Channel access and occupation rules	Duty cycle		
	Access protocol		
	Trans. capacity		
Direction / Separation	Paired carrier 45 MHz below		Base station transmit Repeater transmit/receive
Authorisation regime	Individual licensing		
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	EN 301 908-14, EN 301 908-22 EC Decision 2011/251/EU		
Remarks	Frequency band coupled with 880-915 MHz		
Notification number	2012/305/L		
Equipment class	Class 2		

Normative in accordance to the **TCAM RIG II** templateInformative in accordance to the **TCAM RIG II** template

Interface Regulations

Terrestrial systems capable of providing ECS

TRA-ECS

Parameter	Description		Comment
Frequency band	1710 - 1785 MHz		Harmonisation of the 900 MHz and 1 800 MHz frequency bands for terrestrial systems capable of providing pan-European electronic communications services in the Community (2011/251/EU)
Radio Service	Mobile Mobile except aeronautical mobile		
Application	TRA-ECS		
Channel / modulation	Channel spacing	Ch. raster: 100 kHz	
	Designation of emission		
	Modulation / Occupied bandwidth		
	Reference frequency		
Transmit power / Power density	Output power		
	Antenna Gain		
	Radiated power		
Channel access and occupation rules	Duty cycle		
	Access protocol		
	Trans. capacity		
Direction / Separation	Paired carrier 95 MHz above		Terminal transmit Repeater transmit/receive
Authorisation regime	Included in operator network licence		
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	EN 301 908-13 ,EN 301 908-21 EC Decision 2011/251/EU		
Remarks	Frequency band coupled with 1805-1880 MHz		
Notification number	2012/305/L		
Equipment class	Class 1		Refer to Sub-class 09a (2000/299/EC)

Normative in accordance to the **TCAM RIG II** templateInformative in accordance to the **TCAM RIG II** template

Interface Regulations

Terrestrial systems capable of providing ECS

TRA-ECS

Parameter	Description		Comment
Frequency band	1805 - 1880 MHz		Harmonisation of the 900 MHz and 1 800 MHz frequency bands for terrestrial systems capable of providing pan-European electronic communications services in the Community (2011/251/EU)
Radio Service	Mobile Mobile except aeronautical mobile		
Application	TRA-ECS		
Channel / modulation	Channel spacing	Ch. raster: 100 kHz	
	Designation of emission		
	Modulation / Occupied bandwidth		
	Reference frequency		
Transmit power / Power density	Output power		
	Antenna Gain		
	Radiated power		
Channel access and occupation rules	Duty cycle		
	Access protocol		
	Trans. capacity		
Direction / Separation	Paired carrier 95 MHz below		Base station transmit Repeater transmit/receive
Authorisation regime	Individual licensing		
Add. essential requirements			
Freq. planning assumption			
Planned changes			
Reference	EN 301 908-14, EN 301 908-22 EC Decision 2011/251/EU		
Remarks	Frequency band coupled with 1710-1785 MHz		
Notification number	2012/305/L		
Equipment class	Class 2		

- ☒ Normative in accordance to the **TCAM RIG II** template
☐ Informative in accordance to the **TCAM RIG II** template