

RO-IR 03

TECHNICAL REGULATION

for the radio interface

concerning Wideband Data Transmission Systems

98/34/EC Notification number: 2014/599/RO

1. Basic considerations

The Radio Equipment and Telecommunications Terminal Equipment Directive 1999/5/EC (R&TTE Directive) was implemented in Romania (RO) by Government Decision No. 130/2015.

This technical regulation contains the necessary equipment parameters for the use of licence exempt Wideband Data Transmission Systems in the specified frequency bands and considers especially compliance with Articles 3.2, 4.1, 6 and 7.2 of Directive 1999/5/EC.

Nothing in this Technical Regulation shall preclude the need for equipment placed on the market in Romania to comply with Directive 1999/5/EC.

The obligations arising from Directive 98/34/EC of the European Parliament and of the Council of 22 June 1998 laying down a procedure for the provision of information in the field of technical standards and regulations and of rules on Information Society services (OJ L 204 p. 37), as amended by Directive 98/48/EC of the European Parliament and of the Council of 20 July 1998 (OJ L 217 p. 18), have been met.

All Romanian Technical Regulations notified under Directive 1998/34/EC will be published and will be made available free of charge from the ANCOM web-site at:

http://www.ancom.org.ro/en/interface-regulations-_2723

2. Radio Interface Specifications

Wideband Data Transmission Systems

Frequency band	Annex
2 400–2 483.5 MHz	RO-IR 03–01
5 150–5 350 MHz	RO-IR 03–02
5 470–5 725 MHz	RO-IR 03–03
57–66 GHz	RO-IR 03–04

For the purpose of this Technical Regulation, *wireless access systems including radio local area networks (WAS/RLANs)* shall mean broadband radio systems that allow wireless access for public and private applications disregarding the underlying network topology.

For the purpose of this Technical Regulation, *indoor use* shall mean use inside a building, including places assimilated thereto such as an aircraft, in which the shielding will typically provide the necessary attenuation to facilitate sharing with other services.

For the purpose of this Technical Regulation, *mean equivalent isotropic radiated power (e.i.r.p.)* shall mean e.i.r.p. during the transmission burst which corresponds to the highest power, if power control is implemented.

For the purpose of this Technical Regulation, *non-interference and non-protected basis* means that no harmful interference may be caused to any radio communications service and that no claim may be made for protection of these devices against harmful interference originating from radio communications services.

The use of radio spectrum by short-range device is allowed on a non-interference and non-protected basis provided that such device meets the conditions set out in the Annexes.

ROMANIA	Radio Interface Specification	SRD / Wideband Data Transmission Systems	RO-IR 03-01	Edition 1/ 2014
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	Nr	Parameter	Description	Comments
Normative part	1	Radiocommunication Service	Mobile	
	2	Application	Short Range Devices / Wideband Data Transmission Systems	<i>Wireless Access Systems including Radio Local Area Networks (WAS/RLANs)</i>
	3	Frequency band	2 400 – 2 483.5 MHz	<i>Harmonised radio spectrum for use by short-range devices (Decision 2013/752/EU amending Decision 2006/771/EC)</i>
	4	Channelling	-	
	5	Modulation / Occupied bandwidth	-	
	6	Direction / Separation	-	
	7	Transmit power / Power density	100 mW equivalent isotropic radiated power (e.i.r.p.)	<i>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.</i>
	8	Channel access and occupation rules	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.	
	9	Authorisation regime	Licence exemption	
	10	Additional essential requirements	-	
	11	Frequency planning assumptions	-	
Informative part	12	Planned changes	-	
	13	Reference	EN 300 328; Decision 2013/752/EU amending Decision 2006/771/EC; ERC/REC 70-03	
	14	Notification number	2014/599/RO	
	15	Remarks	-	

ROMANIA	Radio Interface Specification	SRD / Wideband Data Transmission Systems	RO-IR 03-02	Edition 1/ 2014
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	Nr	Parameter	Description	Comments
Normative part	1	Radiocommunication Service	Mobile	
	2	Application	Short Range Devices / Wideband Data Transmission Systems Restricted to indoor use	<i>Wireless Access Systems including Radio Local Area Networks (WAS/RLANs)</i>
	3	Frequency band	5 150 – 5 350 MHz	<i>Harmonised use of radio spectrum in the 5 GHz frequency band (Decision 2005/513/EC amended by Decision 2007/90/EC)</i>
	4	Channelling	-	
	5	Modulation / Occupied bandwidth	-	
	6	Direction / Separation	-	
	7	Transmit power / Power density	200 mW mean e.i.r.p.	<i>The maximum mean e.i.r.p. density shall be limited to 10 mW/MHz in any 1 MHz band. WAS/RLANs operating in the band 5 250-5 350 MHz shall employ transmitter power control, which provides, on average, a mitigation factor of at least 3 dB on the maximum permitted output power of the systems. If transmitter power control is not in use, the maximum permitted mean e.i.r.p. and the corresponding mean e.i.r.p. density limits for the 5 250-5 350 MHz band shall be reduced by 3 dB.</i>
	8	Channel access and occupation rules	WAS/RLANs operating in the band 5 250-5 350 MHz shall use mitigation techniques that give at least the same protection as the detection, operational and response requirements described in EN 301 893 to ensure compatible operation with radiodetermination systems. Such mitigation techniques shall equalise the probability of selecting a specific channel for all available channels so as to ensure, on average, a near-uniform spread of spectrum loading.	
	9	Authorisation regime	Licence exemption	
	10	Additional essential requirements	-	
	11	Frequency planning assumptions	-	

Informative part	12	Planned changes	-	
	13	Reference	EN 301 893; Decision 2005/513/EC amended by Decision 2007/90/EC; ECC/DEC/(04)08	
	14	Notification number	2014/599/RO	
	15	Remarks	-	

ROMANIA	Radio Interface Specification	SRD / Wideband Data Transmission Systems	RO-IR 03-03	Edition 1/ 2014
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	Nr	Parameter	Description	Comments
Normative part	1	Radiocommunication Service	Mobile	
	2	Application	Short Range Devices / Wideband Data Transmission Systems Indoor as well as outdoor use allowed	<i>Wireless Access Systems including Radio Local Area Networks (WAS/RLANs)</i>
	3	Frequency band	5 470 – 5 725 MHz	<i>Harmonised use of radio spectrum in the 5 GHz frequency band (Decision 2005/513/EC amended by Decision 2007/90/EC)</i>
	4	Channelling	-	
	5	Modulation / Occupied bandwidth	-	
	6	Direction / Separation	-	
	7	Transmit power / Power density	1 W mean e.i.r.p.	<i>The maximum mean e.i.r.p. density shall be limited to 50 mW/MHz in any 1 MHz band. WAS/RLANs operating in the band 5 470-5 725 MHz shall employ transmitter power control, which provides, on average, a mitigation factor of at least 3 dB on the maximum permitted output power of the systems. If transmitter power control is not in use, the maximum permitted mean e.i.r.p. and the corresponding mean e.i.r.p. density limits for the 5 470-5 725 MHz band shall be reduced by 3 dB.</i>
	8	Channel access and occupation rules	WAS/RLANs operating in the band 5 470-5 725 MHz shall use mitigation techniques that give at least the same protection as the detection, operational and response requirements described in EN 301 893 to ensure compatible operation with radiodetermination systems. Such mitigation techniques shall equalise the probability of selecting a specific channel for all available channels so as to ensure, on average, a near-uniform spread of spectrum loading.	
	9	Authorisation regime	Licence exemption	
	10	Additional essential requirements	-	
	11	Frequency planning assumptions	-	

Informative part	12	Planned changes	-	
	13	Reference	EN 301 893; Decision 2005/513/EC amended by Decision 2007/90/EC; ECC/DEC/(04)08	
	14	Notification number	2014/599/RO	
	15	Remarks	-	

ROMANIA	Radio Interface Specification	SRD / Wideband Data Transmission Systems	RO-IR 03-04	Edition 1/ 2014
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	Nr	Parameter	Description	Comments
Normative part	1	Radiocommunication Service	Mobile	
	2	Application	Short Range Devices / Wideband Data Transmission Systems Fixed outdoor installations are excluded.	<i>Wireless Access Systems including Radio Local Area Networks (WAS/RLANs)</i>
	3	Frequency band	57 – 66 GHz	<i>Harmonised radio spectrum for use by short-range devices (Decision 2013/752/EU amending Decision 2006/771/EC)</i>
	4	Channelling	-	
	5	Modulation / Occupied bandwidth	-	
	6	Direction / Separation	-	
	7	Transmit power / Power density	40 dBm e.i.r.p. and 13 dBm/MHz e.i.r.p. density	
	8	Channel access and occupation rules	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.	
	9	Authorisation regime	Licence exemption	
	10	Additional essential requirements	-	
	11	Frequency planning assumptions	-	
Informative part	12	Planned changes	-	
	13	Reference	EN 302 567; Decision 2013/752/EU amending Decision 2006/771/EC; ERC/REC 70-03	
	14	Notification number	2014/599/RO	
	15	Remarks	-	