

RO-IR 13

TECHNICAL REGULATION

for the radio interface

concerning audio/multimedia radio applications

1. Basic Considerations

Directive 2014/53/EU of the European Parliament and of the Council of 16 April 2014 on the harmonisation of the laws of the Member States relating to the making available on the market of radio equipment and repealing Directive 1999/5/EC was implemented in national legislation by Government Decision No. 740/2016 on making available on the market of radio equipment, with subsequent amendments and completions.

This technical regulation contains the requirements for the license exempted radio spectrum usage by audio/multimedia radio applications devices in the specified frequency bands and considers compliance, especially with the provisions of Article 3 Paragraph 2 and Articles 6-8 of Directive 2014/53/EU.

This technical regulation does not exclude the obligation that the radio equipment placed on the market or made available on the market in Romania shall comply with the Directive 2014/53/EU.

The obligations arising from Directive (EU) 2015/1535 of the European Parliament and of the Council of 9 September 2015 laying down a procedure for the provision of information in the field of technical regulations and of rules on Information Society services are met by this regulation (OJ L 241, 17.9.2015, pages 1-15).

All Romanian technical regulations for the radio interfaces notified under Directive (EU) 2015/1535 shall be published and made available on National Authority for Management and Regulation in Communications (ANCOM) web-site at: http://www.ancom.ro/reglementari-interfete_2723.

2. Radio Interface Specifications

Audio/multimedia radio applications

Frequency band	Annex
87.5 – 108 MHz	RO-IR 13–01
863 – 865 MHz	RO-IR 13–02
1 795 – 1 800 MHz	RO-IR 13–03

For the purpose of this technical regulation, Short-Range Device (SRD) means a radio device, which provides unidirectional or bidirectional communication and which receives and/or transmits signals over a short distance and with low power.

The *high duty cycle/continuous transmission devices category* covers radio devices that rely on low latency and high duty cycle transmissions.

Typical uses are for personal wireless audio and multimedia streaming systems which allow a continuous reception used for combined audio/video transmissions and audio/video synchronization signals, mobile phones, home or automotive entertainment system, wireless microphones, cordless loudspeakers, cordless headphones, portable radio devices, assistive listening devices, in-ear monitoring, wireless microphones for use at concerts or other stage productions, and low power analogue FM transmitters as well (87.5-108 MHz frequency band).

For the purpose of this Technical Regulation, *cordless* means the link between at least two devices that do not require physical connection. While the term "*cordless*" might refer to infrared or other non-radio application links, in the context of this document it is restricted to systems operating through radio spectrum only.

For the purpose of this Technical Regulation, *non-interference and non-protected* means that it is not allowed to cause any harmful interference to radio communications service and that it shall not be claimed the protection of these devices against harmful interference originating from radio communications services.

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

3. Document history:

Edition	Changes
Edition 1/2014	Notification number according to Directive 98/34/EC: 2014/608/RO.
Edition 2/2018 (06.08.2018)	<p>Update according to Commission Implementing Decision (EU) 2017/1483 amending Decision 2006/771/EC on harmonizing the radio spectrum for the use of short-range devices and repealing Decision 2006/804/EC:</p> <ul style="list-style-type: none"> - Update of the specifications for the radio interface (RO-IR 13-01, RO-IR 13-02) <p>RO-IR 13-03 was abandoned (864.8-865 MHz frequency band is no longer the object of ERC/REC 70-03); Update of the legal framework according to Point 1 – „Basic considerations“; Formal changes according to TCAM-RSC pattern of November 2017.</p>
Edition 3/2020 (23.12.2020)	<p>Update according to Commission Implementing Decision (EU) 2019/1345 amending Decision 2006/771/EC updating harmonised technical conditions in the area of radio spectrum use for short-range devices:</p> <ul style="list-style-type: none"> • Updating of some definitions and terms; • Renumbering of annexes. <p>Update of the legal framework according to Point 1 – „Basic considerations“ and reference documents.</p>

ROMANIA	Radio Interface Specification	SRD /Audio/Multimedia Radio Applications	RO-IR 13-01	Edition 3/2020
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	Nr	Parameter	Description	Comments
Normative Part	1	Radiocommunication Service	Mobile	
	2	Application	Short-Range Devices / Audio/multimedia radio applications	<i>This set of usage conditions applies exclusively to audio and multimedia streaming on radio application transmitters with analogue frequency modulation (FM).</i>
	3	Frequency band	87.5 – 108 MHz	<i>Harmonised radio spectrum for use by short-range devices (Commission Implementing Decision (EU) 2019/1345 amending Decision 2006/771/EC updating harmonised technical conditions in the area of radio spectrum use for short-range devices).</i>
	4	Channeling (channel distribution)	Channel spacing up to 200 kHz	
	5	Modulation/Occupied bandwidth	-	
	6	Direction/Separation	-	
	7	Transmit power / Power density	50 nW effective radiated power (e.r.p.)	<i>When audio signals are not present, the apparatus shall use a transmission time out facility. Pilot tones that ensure the continuity of transmission are not allowed.</i>
	8	Channel occupation and access rules	-	
	9	Authorization regime	License exemption	
	10	Additional essential requirements (According to Article 3 Paragraph 3 of 2014/53/EU Directive)	-	
	11	Assumptions on spectrum planning	-	
Informative Part	12	Planned changes	-	
	13	Reference	EN 301 357; Commission Implementing Decision (EU) 2019/1345 amending Decision 2006/771/EC updating harmonised technical conditions in the area of radio spectrum use for short-range devices; ERC/REC 70-03	
	14	Notification number	-	
	15	Remarks	-	

F1- RTIR Edition:1; Revision:1

ROMANIA	Radio Interface Specification	SRD /Audio/Multimedia Radio Applications	RO-IR 13-02	Edition 3/2020
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	Nr	Parameter	Description	Comments
Normative Part	1	Radiocommunication Service	Mobile	
	2	Application	Short-Range Devices / Audio/multimedia radio applications	<i>This set of usage conditions applies exclusively to audio and multimedia streaming on radio application devices.</i>
	3	Frequency band	863 – 865 MHz	<i>Harmonised radio spectrum for use by short-range devices (Commission Implementing Decision (EU) 2019/1345 amending Decision 2006/771/EC updating harmonised technical conditions in the area of radio spectrum use for short-range devices).</i>
	4	Channeling (channel distribution)	-	
	5	Modulation/Occupied bandwidth	-	
	6	Direction/Separation	-	
	7	Transmit power / Power density	10 mW effective radiated power (e.r.p.)	
	8	Channel occupation and access rules	-	
	9	Authorization regime	License exemption	
	10	Additional essential requirements (According to Article 3 Paragraph 3 of 2014/53/EU Directive)	-	
	11	Assumptions on spectrum planning	-	
Informative Part	12	Planned changes	-	
	13	Reference	EN 301 357; EN 300 422-1/-2/-3/-4, Commission Implementing Decision (EU) 2019/1345 amending Decision 2006/771/EC updating harmonised technical conditions in the area of radio spectrum use for short-range devices; ERC/REC 70-03	
	14	Notification number	-	
	15	Remarks	-	

F1- RTIR Edition:1; Revision:1

ROMANIA	Radio Interface Specification	SRD /Audio/Multimedia Radio Applications	RO-IR 13-03	Edition 3/2020
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	Nr	Parameter	Description	Comments
Normative Part	1	Radiocommunication Service	Mobile	
	2	Application	Short-Range Devices / Audio radio applications	
	3	Frequency band	1 795 – 1 800 MHz	
	4	Channeling (channel distribution)	-	
	5	Modulation/Occupied bandwidth	-	
	6	Direction/Separation	-	
	7	Transmit power / Power density	20 mW equivalent isotropic radiated power (e.i.r.p.)	
	8	Channel occupation and access rules	-	
	9	Authorization regime	License exemption	
	10	Additional essential requirements (According to Article 3 Paragraph 3 of 2014/53/EU Directive)	-	
	11	Assumptions on spectrum planning	-	
Informative Part	12	Planned changes	-	
	13	Reference	EN 301 357; ERC/REC 70-03	
	14	Notification number	2014/608/RO	
	15	Remarks	-	

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