

**RO-IR 13**

**TECHNICAL REGULATION**

**for the radio interface**

**concerning wireless audio/multimedia devices**

## 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.

This technical regulation contains the requirements for the use of licence exempt wireless audio/multimedia applications in the specified frequency bands and considers especially compliance with the provisions of Article 3 Paragraph 2 and Articles 6, 7 and 8 of Directive 2014/53/EU.

Nothing in this technical regulation shall preclude the need for equipment placed on the market in Romania to comply with 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 have been met (OJ L 241, 17.9.2015, p. 1–15).

All Romanian technical regulations for the radio interfaces notified under Directive (EU) 2015/1535 will be published and will be made available on National Authority for Management and Regulation in Communications of Romania (ANCOM) web-site at: [http://www.ancom.org.ro/reglementari-interfete\\_2723](http://www.ancom.org.ro/reglementari-interfete_2723)

## 2. Radio Interface Specifications

### Wireless audio/multimedia applications

| Frequency band  | Annex       |
|-----------------|-------------|
| 87.5 - 108 MHz  | RO-IR 13–01 |
| 863 - 865 MHz   | RO-IR 13–02 |
| 1795 - 1800 MHz | RO-IR 13–04 |

For the purpose of this technical regulation, *Short-Range Device (SRD)* means radio transmitters which provide either unidirectional or bidirectional communication and which transmit over a short distance at low power.

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

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

For the purpose of this Technical Regulation, *cordless* means link between at least two entities that does not require physical connection. While the term "*cordless*" can refer to infra-red and other non-RF "wireless" links, in the context of the present document it is restricted to RF operating systems only.

For the purpose of this Technical Regulation, *non-interference and non-protected basis* means the interdiction 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.

### 3. Document history:

| Edition                        | Changes  |
|--------------------------------|--|
| Edition 1/2014                 | Notification number according to Directive 98/34/EC: 2014/608/RO.  |
| Edition 2/2018<br>(06.08.2018) | <p>Update according to implementng 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"><li>- Update of specifications for radio interface (RO-IR 13-01, RO-IR 13-02).</li></ul> <p>RO-IR 13-03 was removed (864.8-865 MHz frequency band is no longer the object of ERC/REC 70-03).</p> <p>Update of the legal framework according to Point 1 – „Basic considerations“.</p> <p>Formal changes according to TCAM-RSC model of November 2017.</p> |

|         |                               |  |             |                 |
|---------|-------------------------------|--|-------------|-----------------|
| ROMANIA | Radio Interface Specification | SRD /Wireless audio/multimedia devices | RO-IR 13-01 | Edition 2/ 2018 |
|---------|-------------------------------|--|-------------|-----------------|

|                  | Nr | Parameter  | Description   | Comments  |
|------------------|----|--|---|---|
| Normative part   | 1  | Radiocommunication Service   | Mobile  |   |
|                  | 2  | Application  | Short Range Devices / Wireless audio/multimedia devices   | <i>This set of usage conditions is only available to wireless audio transmitters and multimedia streaming devices which allow continuous reception with analogue frequency modulation (FM).</i>   |
|                  | 3  | Frequency band   | 87.5 - 108 MHz  | <i>Harmonised radio spectrum for use by short range devices (Decision 2017/1483/EU amending Decision 2006/771/EC on the harmonization of radio frequencies spectrum for the use of short range devices and repealing Decision 2006/804/EC).</i> |
|                  | 4  | Channelling (channel distribution)   | 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, apparatus shall employ a transmission time out facility. Pilot tones that ensure continuity of transmission are not permitted.</i>   |
|                  | 8  | Channel access and occupation rules  | -   |   |
|                  | 9  | Authorisation regime   | Licence exemption   |   |
|                  | 10 | Additional essential requirements (According to Article 3 Paragraph 3 of 2014/53/EU Directive) | -   |   |
|                  | 11 | Frequency planning assumptions   | -   |   |
| Informative part | 12 | Planned changes  | -   |   |
|                  | 13 | Reference  | EN 301 357; Decision 2017/1483/EU amending Decision 2006/771/EC on the harmonization of radio frequencies spectrum for the use of short range devices and repealing Decision 2006/804/EC; ERC/REC 70-03 |   |
|                  | 14 | Notification number  | -   |   |
|                  | 15 | Remarks  | -   |   |

F1- RTIR Edition:1; Revision:1

|         |                               |  |             |                 |
|---------|-------------------------------|--|-------------|-----------------|
| ROMANIA | Radio Interface Specification | SRD /Wireless audio/multimedia devices | RO-IR 13-02 | Edition 2/ 2018 |
|---------|-------------------------------|--|-------------|-----------------|

|                  | Nr | Parameter   | Description  | Comments  |
|------------------|----|---|--|---|
| Normative part   | 1  | Radiocommunication Service  | Mobile   |   |
|                  | 2  | Application   | Short Range Devices / Wireless audio/multimedia devices  | <i>This set of usage conditions is only available to wireless audio and multimedia streaming devices which allow continuous reception.</i>  |
|                  | 3  | Frequency band  | 863 - 865 MHz  | <i>Harmonised radio spectrum for use by short range devices (Decision 2017/1483/EU amending Decision 2006/771/EC on the harmonization of radio frequencies spectrum for the use of short range devices and repealing Decision 2006/804/EC).</i> |
|                  | 4  | Channelling (channel distribution)  | -  |   |
|                  | 5  | Modulation / Occupied bandwidth   | -  |   |
|                  | 6  | Direction / Separation  | -  |   |
|                  | 7  | Transmit power / Power density  | 10 mW effective radiated power (e.r.p.)  |   |
|                  | 8  | Channel access and occupation rules   | -  |   |
|                  | 9  | Authorisation regime  | Licence exemption  |   |
|                  | 10 | Additional essential requirements<br>(According to Article 3 Paragraph 3 of 2014/53/EU Directive) | -  |   |
|                  | 11 | Frequency planning assumptions  | -  |   |
| Informative part | 12 | Planned changes   | -  |   |
|                  | 13 | Reference   | EN 301 357; EN 300 422-1/-2/-3/-4, Decision 2017/1483/EU amending Decision 2006/771/EC on the harmonization of radio frequencies spectrum for the use of short range devices and repealing Decision 2006/804/EC; ERC/REC 70-03 |   |
|                  | 14 | Notification number   | -  |   |
|                  | 15 | Remarks   | -  |   |

F1- RTIR Edition:1; Revision:1

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|----------------|--------------------------------------|---|--------------------|------------------------|
| <b>ROMANIA</b> | <b>Radio Interface Specification</b> | <b>SRD /Wireless audio/multimedia devices</b> | <b>RO-IR 13-04</b> | <b>Edition 2/ 2018</b> |
|----------------|--------------------------------------|---|--------------------|------------------------|

|                         | <b>Nr</b> | <b>Parameter</b>  | <b>Description</b>                                   | <b>Comments</b> |
|-------------------------|-----------|---|--|-----------------|
| <b>Normative part</b>   | <b>1</b>  | <b>Radiocommunication Service</b>   | Mobile   |                 |
|                         | <b>2</b>  | <b>Application</b>  | Short Range Devices / Wireless audio devices         |                 |
|                         | <b>3</b>  | <b>Frequency band</b>   | 1795 - 1800 MHz                                      |                 |
|                         | <b>4</b>  | <b>Channelling (channel distribution)</b>   | -  |                 |
|                         | <b>5</b>  | <b>Modulation / Occupied bandwidth</b>  | -  |                 |
|                         | <b>6</b>  | <b>Direction / Separation</b>   | -  |                 |
|                         | <b>7</b>  | <b>Transmit power / Power density</b>   | 20 mW equivalent isotropic radiated power (e.i.r.p.) |                 |
|                         | <b>8</b>  | <b>Channel access and occupation rules</b>  | -  |                 |
|                         | <b>9</b>  | <b>Authorisation regime</b>   | Licence exemption                                    |                 |
|                         | <b>10</b> | <b>Additional essential requirements<br/>(According to Article 3 Paragraph 3 of<br/>2014/53/EU Directive)</b> | -  |                 |
|                         | <b>11</b> | <b>Frequency planning assumptions</b>   | -  |                 |
| <b>Informative part</b> | <b>12</b> | <b>Planned changes</b>  | -  |                 |
|                         | <b>13</b> | <b>Reference</b>  | EN 301 357; ERC/REC 70-03                            |                 |
|                         | <b>14</b> | <b>Notification number</b>  | 2014/608/RO  |                 |
|                         | <b>15</b> | <b>Remarks</b>  | -  |                 |

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