

**Decision No 1722 of 15 November 2011 on radio frequencies and frequency bands whose use is free (exempted from licensing)**

On the basis of the provisions of the Article 13 of Emergency Ordinance No 79/2002 on the general regulatory framework for communications, approved with amendments and completions by Law No 591/2002, with subsequent amendments and completions, as well as of the Article 10 paragraph (2) point 10, Article 11 paragraph (1) and Article 12 paragraph (1) and (3) of Government Emergency Ordinance No 22/2009 on the establishment of the National Authority for Management and Regulation in Communications, approved by Law No 113/2010, with subsequent amendments,

Having regard to the provisions of Article 17 of Government Decision No 88/2003 on radio equipment and telecommunications terminal equipment and the mutual recognition of their conformity, republished,

The President of the National Authority for Management and Regulation in Communications has issued the present decision:

**Article 1**

The subject matter of the present decision is:

- a) designation of the radio frequencies or radio frequency bands whose use is exempted from licensing in order to use radio frequencies for certain types of applications;
- b) regulation the technical specifications for the radio interfaces RO-IR.

**Article 2**

(1) The radio frequencies or radio frequency bands, exempted from the licensing regime and applications for them are contained in the Annex which is an integral part of this decision.

(2) The radio frequencies or radio frequency bands specified in paragraph (1) may be used only in the radio communications services: land mobile, fixed, radiodetermination (except marine radionavigation services and aeronautical radionavigation). Exceptions to this rule are expressly provided.

(3) The usage of the radio frequencies or radio frequency bands in accordance with the conditions specified in paragraph (1) can be achieved only in technical terms that ensure that will appear no risk of harmful interference on radio communications stations using radio spectrum in accordance with the regulations in force.

(4) The radio frequencies or radio frequency bands specified in paragraph (1) used in accordance with this decision, have no protection radio, whether interference are produced by the users like or radio communications stations operating in accordance with the regulations in force.

**Article 3**

(1) The supply of networks or electronic communications services via radio frequencies or radio frequency bands referred to in Art. 2 paragraph (1) is subject to the general authorization regime for the provision of networks and electronic communications services in accordance with the provisions of Government Emergency Ordinance No. 79/2002 on the general regulatory framework for communications, approved with amendments and completions by Law No. 591/2002, with subsequent amendments and completions.

#### **Article 4**

The technical specifications for RO-IR radio interfaces contain the operation requirements of equipment for reasons of efficient use of radio spectrum, avoidance of harmful interference and protection of public health.

#### **Article 5**

(1) The technical specifications concerning RO-IR radio interfaces covered by this Decision shall publish on ANCOM website.

(2) The technical specifications concerning RO-IR radio interfaces is updated periodically, if necessary, and published on ANCOM website.

#### **Article 6**

The decisions or the recommendations on the harmonized use of certain radio frequencies or certain radio frequency bands by specific applications, adopted at the European bodies or in other international organizations to which Romania is part, can be implemented by this decision or by technical specifications concerning RO-IR radio interfaces.

#### **Article 7**

The present decision shall publish in the Official Gazette of Romania, Part I.

#### **Article 8**

On the publishing date of the present decision, the Decision of the President of the National Authority for Management and Regulation in Communications No 62/2005 on the categories of radio frequencies whose use is free, with subsequent amendments and completions, is repealed.

**President of the National Authority for Management and Regulation in  
Communications**

Bucharest, 15 November 2011

No 1722

**ANNEX: Radio frequencies and frequency bands whose use is free (exempted from licensing), classified on applications.**

**1. Non-specific Short Range Devices:**

FREQUENCY BAND	RADIO INTERFACE
6 765 – 6 795 kHz	RO-IR 01-01
13 553 – 13 567 kHz	RO-IR 01-02
26 957 – 27 283 kHz	RO-IR 01-03
40,660 – 40,700 MHz	RO-IR 01-04
138,20 – 138,45 MHz	RO-IR 01-05
433,050 – 434,040 MHz	RO-IR 01-06-1 RO-IR 01-06-2
434,040 – 434,790 MHz	RO-IR 01-07-1 RO-IR 01-07-2 RO-IR 01-07-3
863,000 – 865,000 MHz	RO-IR 01-08
865,000 – 868,000 MHz	RO-IR 01-09
868,000 – 868,600 MHz	RO-IR 01-10
868,700 – 869,200 MHz	RO-IR 01-11
869,400 – 869,650 MHz	RO-IR 01-12-1 RO-IR 01-12-2
869,700 – 870,000 MHz	RO-IR 01-13-1 RO-IR 01-13-2
2 400 – 2 483,5 MHz	RO-IR 01-14
5 725 – 5 875 MHz	RO-IR 01-15
24,00 – 24,15 GHz	RO-IR 01-16
24,15 – 24,25 GHz	RO-IR 01-17
61,0 – 61,5 GHz	RO-IR 01-18
122 – 123 GHz	RO-IR 01-19
244 – 246 GHz	RO-IR 01-20

**2. Tracking, Tracing and Data Acquisition Devices:**

FREQUENCY BAND	RADIO INTERFACE
456,9 – 457,1 kHz	RO-IR 02-01
169,4 – 169,475 MHz	RO-IR 02-02-1 RO-IR 02-02-2

**3. Wideband Data Transmission Systems:**

FREQUENCY BAND	RADIO INTERFACE
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
17,1 – 17,3 GHz	RO-IR 03-04
57 – 66 GHz	RO-IR 03-05

**4. Railway applications:**

FREQUENCY BAND	RADIO INTERFACE
2 446 – 2 454 MHz	RO-IR 04-01

27 090 – 27 100 kHz	RO-IR 04-02
984 – 7 484 kHz	RO-IR 04-03
516 – 8 516 kHz	RO-IR 04-04
7 300 – 23 000 kHz	RO-IR 04-05

5. Road Transport and Traffic Telematics (RTTT):

FREQUENCY BAND	RADIO INTERFACE
76 – 77 GHz	RO-IR 05-04

6. Radiodetermination applications:

FREQUENCY BAND	RADIO INTERFACE
2400 – 2483,5 MHz	RO-IR 06-01
9200 – 9500 MHz	RO-IR 06-02
9500 – 9975 MHz	RO-IR 06-03
10,5 – 10,6 GHz	RO-IR 06-04
13,4 – 14 GHz	RO-IR 06-05
24,05 – 24,25 GHz	RO-IR 06-06
4,5 – 7 GHz	RO-IR 06-07
8,5 – 10,6 GHz	RO-IR 06-08
24,05 – 27 GHz	RO-IR 06-09
57 – 64 GHz	RO-IR 06-10
75 – 85 GHz	RO-IR 06-11
17,1 – 17,3 GHz	RO-IR 06-12

7. Alarms:

FREQUENCY BAND	RADIO INTERFACE
868,600 – 868,700 MHz	RO-IR 07-01
869,200 – 869,250 MHz	RO-IR 07-02
869,250 – 869,300 MHz	RO-IR 07-03
869,300 – 869,400 MHz	RO-IR 07-04
869,650 – 869,700 MHz	RO-IR 07-05
169,4750 – 169,4875 MHz	RO-IR 07-06
169,5875 – 169,6000 MHz	RO-IR 07-07

8. Model control:

FREQUENCY BAND	RADIO INTERFACE
26 995 kHz; 27 045 kHz; 27 095 kHz; 27 145 kHz; 27 195 kHz	RO-IR 08-01
34,995 MHz – 35,225 MHz	RO-IR 08-02
40,665 MHz; 40,675 MHz; 40,685 MHz; 40,695 MHz	RO-IR 08-03

9. Inductive applications:

FREQUENCY BAND	RADIO INTERFACE
9 – 59,75 kHz	RO-IR 09-01
59,75 – 60,25 kHz	RO-IR 09-02

60,25 – 70 kHz	RO-IR 09-03
70 – 119 kHz	RO-IR 09-04
119 – 127 kHz	RO-IR 09-05
127 – 140 kHz	RO-IR 09-06
140 – 148,5 kHz	RO-IR 09-07
148,5 – 5 000 kHz	RO-IR 09-08
400 – 600 kHz	RO-IR 09-09
3 155 – 3 400 kHz	RO-IR 09-10
5 000 – 30 000 kHz	RO-IR 09-11
6 765 – 6 795 kHz	RO-IR 09-12
7 400 – 8 800 kHz	RO-IR 09-13
10 200 – 11 000 kHz	RO-IR 09-14
13 553 – 13 567 kHz	RO-IR 09-15-1 RO-IR 09-15-2
26 957 – 27 283 kHz	RO-IR 09-16

10. Radio microphones and Assistive Listening Devices (ALD):

Radio microphones	
FREQUENCY BAND	RADIO INTERFACE
29,7 – 30,3 MHz	RO-IR 10-01-1
30,5 – 32,15 MHz	RO-IR 10-01-2
32,45 – 33,1 MHz	RO-IR 10-01-3
33,6 – 34,975 MHz	RO-IR 10-01-4
37,5 – 40,02 MHz	RO-IR 10-01-5
40,66 – 41,015 MHz	RO-IR 10-01-6
44,5 – 45,2 MHz	RO-IR 10-01-7
863 – 865 MHz	RO-IR 10-02
174 – 216 MHz	RO-IR 10-03
470 – 862 MHz	RO-IR 10-04
1785 – 1800 MHz	RO-IR 10-05
Aids for the hearing impaired	
FREQUENCY BAND	RADIO INTERFACE
169,4 – 169,475 MHz	RO-IR 10-06-1 RO-IR 10-06-2
169,4875 – 169,5875 MHz	RO-IR 10-07-1 RO-IR 10-07-2
169,4 – 174 MHz	RO-IR 10-08
173,965 – 174,015 MHz	RO-IR 10-09

11. Radio frequency identification (RFID) applications:

FREQUENCY BAND	RADIO INTERFACE
2 446 – 2 454 MHz	RO-IR 11-01-1 RO-IR 11-01-2
865 – 865,6 MHz	RO-IR 11-02
865,6 – 867,6 MHz	RO-IR 11-03
867,6 – 868 MHz	RO-IR 11-04

12. **Wireless applications in healthcare:**

FREQUENCY BAND	RADIO INTERFACE
9 – 315 kHz	RO-IR 12-01
30 – 37,5 MHz	RO-IR 12-02
401 – 402 MHz	RO-IR 12-03
402 – 405 MHz	RO-IR 12-04
405 – 406 MHz	RO-IR 12-05
315 – 600 kHz	RO-IR 12-06
12 500 – 20 000 kHz	RO-IR 12-07

13. **Wireless audio applications:**

FREQUENCY BAND	RADIO INTERFACE
863 – 865 MHz	RO-IR 13-01
864,8 – 865 MHz	RO-IR 13-02
1795 – 1800 MHz	RO-IR 13-03
87,5 – 108 MHz	RO-IR 13-04

14. **Citizens' Band Radiocommunications Equipment:**

FREQUENCY BAND	RADIO INTERFACE
26 960 – 27 410 kHz (Frequency Modulation – F3E)	RO-IR 14-01
26 960 – 27 410 kHz (Amplitude Modulation – A3E or J3E)	RO-IR 14-02

15. **Private Mobile Radio - PMR 446:**

FREQUENCY BAND	RADIO INTERFACE
446 – 446,1 MHz	RO-IR 15

16. **Digital European Cordless Telecommunications (DECT) Equipment:**

FREQUENCY BAND	RADIO INTERFACE
1880 – 1900 MHz	RO-IR 16

17. **Intelligent Transport Systems (ITS):**

FREQUENCY BAND	RADIO INTERFACE
5 875 – 5 905 MHz	RO-IR 17

18. **Equipment using ultra-wideband (UWB) technology (generic UWB usage):**

FREQUENCY BAND	RADIO INTERFACE
0,009 – 1600 MHz	RO-IR UWB-01-01
1,6 – 2,7 GHz	RO-IR UWB-01-02
2,7 – 3,4 GHz	RO-IR UWB-01-03
3,4 – 3,8 GHz	RO-IR UWB-01-04
3,8 – 4,2 GHz	RO-IR UWB-01-05
4,2 – 4,8 GHz	RO-IR UWB-01-06
4,8 – 6,0 GHz	RO-IR UWB-01-07
6,0 – 8,5 GHz	RO-IR UWB-01-08
8,5 – 10,6 GHz	RO-IR UWB-01-09
10,6 – 275 GHz	RO-IR UWB-01-10

**19. Equipment using ultra-wideband (UWB) technology (specific UWB usage-Building Material Analysis (BMA)):**

FREQUENCY BAND	RADIO INTERFACE
<b>0,009 – 1 730 MHz</b>	<b>RO-IR UWB-02</b>
<b>1 730 – 2 200 MHz</b>	
<b>2 200 – 2 500 MHz</b>	
<b>2 500 – 2 690 MHz</b>	
<b>2 690 – 2 700 MHz</b>	
<b>2 700 – 3 400 MHz</b>	
<b>3 400 – 4 800 MHz</b>	
<b>4 800 – 5 000 MHz</b>	
<b>5 000 – 8 000 MHz</b>	
<b>8 000 – 8 500 MHz</b>	
<b>8,5 – 275 GHz</b>	

**20. Automotive Short Range Radars (SRR) operating in the 24 GHz range radio spectrum band:**

FREQUENCY BAND	RADIO INTERFACE
<b>21,65 – 26,65 GHz</b>	<b>RO-IR UWB-04</b>

**21. Automotive Short Range Radars (SRR) operating in the 79 GHz range radio spectrum band:**

FREQUENCY BAND	RADIO INTERFACE
<b>77 – 81 GHz</b>	<b>RO-IR UWB-05</b>