

RO-IR 09

TECHNICAL REGULATION

for the radio interface

concerning inductive applications

98/34/EC Notification number: 2014/605/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 Short Range Devices (SRDs) intended for inductive applications 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

Inductive applications

Frequency band	Annex
9 - 59.75 kHz	RO-IR 09-01
59.75 – 60.25 kHz	RO-IR 09-02
60.25 – 74.75 kHz	RO-IR 09-03
74.75 – 75.25 kHz	RO-IR 09-04
75.25 – 77.25 kHz	RO-IR 09-05
77.25 – 77.75 kHz	RO-IR 09-06
77.75 – 90 kHz	RO-IR 09-07
90 – 119 kHz	RO-IR 09-08
119 – 128.6 kHz	RO-IR 09-09
128.6 – 129.6 kHz	RO-IR 09-10
129.6 – 135 kHz	RO-IR 09-11
135 – 140 kHz	RO-IR 09-12
140 – 148.5 kHz	RO-IR 09-13
148.5 - 5 000 kHz	RO-IR 09-14
3 155 - 3 400 kHz	RO-IR 09-15
5 000 - 30 000 kHz	RO-IR 09-16
6 765 - 6 795 kHz	RO-IR 09-17
7 400 - 8 800 kHz	RO-IR 09-18
10 200 - 11 000 kHz	RO-IR 09-19
13 553 - 13 567 kHz	RO-IR 09-20

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 *inductive device category* covers radio devices that use magnetic fields with inductive loop systems for near field communications. Typical uses include devices for car immobilization, animal identification, alarm systems, cable detection, waste management, personal identification, wireless voice links, access control, proximity sensors, anti-theft systems, including RF anti-theft induction systems, data transfer to hand-held devices, automatic article identification, wireless control systems and automatic road tolling.

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 / Inductive applications	RO-IR 09-01	Edition 1/ 2014
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	Nr	Parameter	Description	Comments
Normative part	1	Radiocommunication Service	Mobile	
	2	Application	Short Range Devices / Inductive applications	
	3	Frequency band	9 - 59.75 kHz	<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	72 dB μ A/m at 10 metres	
	8	Channel access and occupation rules	-	
	9	Authorisation regime	Licence exemption	
	10	Additional essential requirements	-	
	11	Frequency planning assumptions	-	
Informative part	12	Planned changes	-	
	13	Reference	EN 300 330; Decision 2013/752/EU amending Decision 2006/771/EC	
	14	Notification number	2014/605/RO	
	15	Remarks	-	

ROMANIA	Radio Interface Specification	SRD / Inductive applications	RO-IR 09-02	Edition 1/ 2014
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	Nr	Parameter	Description	Comments
Normative part	1	Radiocommunication Service	Mobile	
	2	Application	Short Range Devices / Inductive applications	
	3	Frequency band	59.75 – 60.25 kHz	<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	42 dBµA/m at 10 metres	
	8	Channel access and occupation rules	-	
	9	Authorisation regime	Licence exemption	
	10	Additional essential requirements	-	
	11	Frequency planning assumptions	-	
Informative part	12	Planned changes	-	
	13	Reference	EN 300 330; Decision 2013/752/EU amending Decision 2006/771/EC	
	14	Notification number	2014/605/RO	
	15	Remarks	-	

ROMANIA	Radio Interface Specification	SRD / Inductive applications	RO-IR 09-03	Edition 1 / 2014
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	Nr	Parameter	Description	Comments
Normative part	1	Radiocommunication Service	Mobile	
	2	Application	Short Range Devices / Inductive applications	
	3	Frequency band	60.25 – 74.75 kHz	<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	72 dB μ A/m at 10 metres	
	8	Channel access and occupation rules	-	
	9	Authorisation regime	Licence exemption	
	10	Additional essential requirements	-	
	11	Frequency planning assumptions	-	
Informative part	12	Planned changes	-	
	13	Reference	EN 300 330; Decision 2013/752/EU amending Decision 2006/771/EC	
	14	Notification number	2014/605/RO	
	15	Remarks	-	

ROMANIA	Radio Interface Specification	SRD / Inductive applications	RO-IR 09-04	Edition 1 / 2014
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	Nr	Parameter	Description	Comments
Normative part	1	Radiocommunication Service	Mobile	
	2	Application	Short Range Devices / Inductive applications	
	3	Frequency band	74.75 – 75.25 kHz	<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	42 dBµA/m at 10 metres	
	8	Channel access and occupation rules	-	
	9	Authorisation regime	Licence exemption	
	10	Additional essential requirements	-	
	11	Frequency planning assumptions	-	
Informative part	12	Planned changes	-	
	13	Reference	EN 300 330; Decision 2013/752/EU amending Decision 2006/771/EC	
	14	Notification number	2014/605/RO	
	15	Remarks	-	

ROMANIA	Radio Interface Specification	SRD / Inductive applications	RO-IR 09-05	Edition 1 / 2014
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	Nr	Parameter	Description	Comments
Normative part	1	Radiocommunication Service	Mobile	
	2	Application	Short Range Devices / Inductive applications	
	3	Frequency band	75.25 – 77.25 kHz	<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	72 dB μ A/m at 10 metres	
	8	Channel access and occupation rules	-	
	9	Authorisation regime	Licence exemption	
	10	Additional essential requirements	-	
	11	Frequency planning assumptions	-	
Informative part	12	Planned changes	-	
	13	Reference	EN 300 330; Decision 2013/752/EU amending Decision 2006/771/EC	
	14	Notification number	2014/605/RO	
	15	Remarks	-	

ROMANIA	Radio Interface Specification	SRD / Inductive applications	RO-IR 09-06	Edition 1 / 2014
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	Nr	Parameter	Description	Comments
Normative part	1	Radiocommunication Service	Mobile	
	2	Application	Short Range Devices / Inductive applications	
	3	Frequency band	77.25 – 77.75 kHz	<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	42 dB μ A/m at 10 metres	
	8	Channel access and occupation rules	-	
	9	Authorisation regime	Licence exemption	
	10	Additional essential requirements	-	
	11	Frequency planning assumptions	-	
Informative part	12	Planned changes	-	
	13	Reference	EN 300 330; Decision 2013/752/EU amending Decision 2006/771/EC	
	14	Notification number	2014/605/RO	
	15	Remarks	-	

ROMANIA	Radio Interface Specification	SRD / Inductive applications	RO-IR 09-07	Edition 1 / 2014
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	Nr	Parameter	Description	Comments
Normative part	1	Radiocommunication Service	Mobile	
	2	Application	Short Range Devices / Inductive applications	
	3	Frequency band	77.75 – 90 kHz	<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	72 dB μ A/m at 10 metres	
	8	Channel access and occupation rules	-	
	9	Authorisation regime	Licence exemption	
	10	Additional essential requirements	-	
	11	Frequency planning assumptions	-	
Informative part	12	Planned changes	-	
	13	Reference	EN 300 330; Decision 2013/752/EU amending Decision 2006/771/EC	
	14	Notification number	2014/605/RO	
	15	Remarks	-	

ROMANIA	Radio Interface Specification	SRD / Inductive applications	RO-IR 09-08	Edition 1 / 2014
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	Nr	Parameter	Description	Comments
Normative part	1	Radiocommunication Service	Mobile	
	2	Application	Short Range Devices / Inductive applications	
	3	Frequency band	90 – 119 kHz	<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	42 dB μ A/m at 10 metres	
	8	Channel access and occupation rules	-	
	9	Authorisation regime	Licence exemption	
	10	Additional essential requirements	-	
	11	Frequency planning assumptions	-	
Informative part	12	Planned changes	-	
	13	Reference	EN 300 330; Decision 2013/752/EU amending Decision 2006/771/EC	
	14	Notification number	2014/605/RO	
	15	Remarks	-	

ROMANIA	Radio Interface Specification	SRD / Inductive applications	RO-IR 09-09	Edition 1 / 2014
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	Nr	Parameter	Description	Comments
Normative part	1	Radiocommunication Service	Mobile	
	2	Application	Short Range Devices / Inductive applications	
	3	Frequency band	119 – 128.6 kHz	<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	66 dB μ A/m at 10 metres	
	8	Channel access and occupation rules	-	
	9	Authorisation regime	Licence exemption	
	10	Additional essential requirements	-	
	11	Frequency planning assumptions	-	
Informative part	12	Planned changes	-	
	13	Reference	EN 300 330; Decision 2013/752/EU amending Decision 2006/771/EC	
	14	Notification number	2014/605/RO	
	15	Remarks	-	

ROMANIA	Radio Interface Specification	SRD / Inductive applications	RO-IR 09-10	Edition 1 / 2014
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	Nr	Parameter	Description	Comments
Normative part	1	Radiocommunication Service	Mobile	
	2	Application	Short Range Devices / Inductive applications	
	3	Frequency band	128.6 – 129.6 kHz	<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	42 dB μ A/m at 10 metres	
	8	Channel access and occupation rules	-	
	9	Authorisation regime	Licence exemption	
	10	Additional essential requirements	-	
	11	Frequency planning assumptions	-	
Informative part	12	Planned changes	-	
	13	Reference	EN 300 330; Decision 2013/752/EU amending Decision 2006/771/EC	
	14	Notification number	2014/605/RO	
	15	Remarks	-	

ROMANIA	Radio Interface Specification	SRD / Inductive applications	RO-IR 09-11	Edition 1 / 2014
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	Nr	Parameter	Description	Comments
Normative part	1	Radiocommunication Service	Mobile	
	2	Application	Short Range Devices / Inductive applications	
	3	Frequency band	129.6 – 135 kHz	<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	66 dB μ A/m at 10 metres	
	8	Channel access and occupation rules	-	
	9	Authorisation regime	Licence exemption	
	10	Additional essential requirements	-	
	11	Frequency planning assumptions	-	
Informative part	12	Planned changes	-	
	13	Reference	EN 300 330; Decision 2013/752/EU amending Decision 2006/771/EC	
	14	Notification number	2014/605/RO	
	15	Remarks	-	

ROMANIA	Radio Interface Specification	SRD / Inductive applications	RO-IR 09-12	Edition 1 / 2014
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	Nr	Parameter	Description	Comments
Normative part	1	Radiocommunication Service	Mobile	
	2	Application	Short Range Devices / Inductive applications	
	3	Frequency band	135 – 140 kHz	<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	42 dB μ A/m at 10 metres	
	8	Channel access and occupation rules	-	
	9	Authorisation regime	Licence exemption	
	10	Additional essential requirements	-	
	11	Frequency planning assumptions	-	
Informative part	12	Planned changes	-	
	13	Reference	EN 300 330; Decision 2013/752/EU amending Decision 2006/771/EC; ERC/REC 70-03	
	14	Notification number	2014/605/RO	
	15	Remarks	-	

ROMANIA	Radio Interface Specification	SRD / Inductive applications	RO-IR 09-13	Edition 1/ 2014
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	Nr	Parameter	Description	Comments
Normative part	1	Radiocommunication Service	Mobile	
	2	Application	Short Range Devices / Inductive applications	
	3	Frequency band	140 – 148.5 kHz	<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	37.7 dBμA/m at 10 metres	
	8	Channel access and occupation rules	-	
	9	Authorisation regime	Licence exemption	
	10	Additional essential requirements	-	
	11	Frequency planning assumptions	-	
Informative part	12	Planned changes	-	
	13	Reference	EN 300 330; Decision 2013/752/EU amending Decision 2006/771/EC; ERC/REC 70-03	
	14	Notification number	2014/605/RO	
	15	Remarks	-	

ROMANIA	Radio Interface Specification	SRD / Inductive applications	RO-IR 09-14	Edition 1/ 2014
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	Nr	Parameter	Description	Comments
Normative part	1	Radiocommunication Service	Mobile	
	2	Application	Short Range Devices / Inductive applications	
	3	Frequency band	148.5 - 5 000 kHz	<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	- 15 dBμA/m at 10 metres in any bandwidth of 10 kHz. Furthermore the total field strength is - 5 dBμA/m at 10 m for systems operating at bandwidths larger than 10 kHz.	
	8	Channel access and occupation rules	-	
	9	Authorisation regime	Licence exemption	
	10	Additional essential requirements	-	
	11	Frequency planning assumptions	-	
Informative part	12	Planned changes	-	
	13	Reference	EN 300 330; Decision 2013/752/EU amending Decision 2006/771/EC; ERC/REC 70-03	
	14	Notification number	2014/605/RO	
	15	Remarks	-	

ROMANIA	Radio Interface Specification	SRD / Inductive applications	RO-IR 09-15	Edition 1/ 2014
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	Nr	Parameter	Description	Comments
Normative part	1	Radiocommunication Service	Mobile	
	2	Application	Short Range Devices / Inductive applications	
	3	Frequency band	3 155 - 3 400 kHz	<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	13.5 dBμA/m at 10 metres	
	8	Channel access and occupation rules	-	
	9	Authorisation regime	Licence exemption	
	10	Additional essential requirements	-	
	11	Frequency planning assumptions	-	
Informative part	12	Planned changes	-	
	13	Reference	EN 300 330; Decision 2013/752/EU amending Decision 2006/771/EC; ERC/REC 70-03	
	14	Notification number	2014/605/RO	
	15	Remarks	-	

ROMANIA	Radio Interface Specification	SRD / Inductive applications	RO-IR 09-16	Edition 1/ 2014
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	Nr	Parameter	Description	Comments
Normative part	1	Radiocommunication Service	Mobile	
	2	Application	Short Range Devices / Inductive applications	
	3	Frequency band	5 000 - 30 000 kHz	<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	- 20 dB μ A/m at 10 metres in any bandwidth of 10 kHz. Furthermore the total field strength is - 5 dB μ A/m at 10 m for systems operating at bandwidths larger than 10 kHz	
	8	Channel access and occupation rules	-	
	9	Authorisation regime	Licence exemption	
	10	Additional essential requirements	-	
	11	Frequency planning assumptions	-	
Informative part	12	Planned changes	-	
	13	Reference	EN 300 330; Decision 2013/752/EU amending Decision 2006/771/EC; ERC/REC 70-03	
	14	Notification number	2014/605/RO	
	15	Remarks	-	

ROMANIA	Radio Interface Specification	SRD / Inductive applications	RO-IR 09-17	Edition 1/ 2014
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	Nr	Parameter	Description	Comments
Normative part	1	Radiocommunication Service	Mobile	
	2	Application	Short Range Devices / Inductive applications	
	3	Frequency band	6 765 - 6 795 kHz	<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	42 dBμA/m at 10 metres	
	8	Channel access and occupation rules	-	
	9	Authorisation regime	Licence exemption	
	10	Additional essential requirements	-	
	11	Frequency planning assumptions	-	
Informative part	12	Planned changes	-	
	13	Reference	EN 300 330; Decision 2013/752/EU amending Decision 2006/771/EC; ERC/REC 70-03	
	14	Notification number	2014/605/RO	
	15	Remarks	-	

ROMANIA	Radio Interface Specification	SRD / Inductive applications	RO-IR 09-18	Edition 1/ 2014
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	Nr	Parameter	Description	Comments
Normative part	1	Radiocommunication Service	Mobile	
	2	Application	Short Range Devices / Inductive applications	
	3	Frequency band	7 400 - 8 800 kHz	<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	9 dBμA/m at 10 metres	
	8	Channel access and occupation rules	-	
	9	Authorisation regime	Licence exemption	
	10	Additional essential requirements	-	
	11	Frequency planning assumptions	-	
Informative part	12	Planned changes	-	
	13	Reference	EN 300 330; Decision 2013/752/EU amending Decision 2006/771/EC; ERC/REC 70-03	
	14	Notification number	2014/605/RO	
	15	Remarks	-	

ROMANIA	Radio Interface Specification	SRD / Inductive applications	RO-IR 09-19	Edition 1/ 2014
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	Nr	Parameter	Description	Comments
Normative part	1	Radiocommunication Service	Mobile	
	2	Application	Short Range Devices / Inductive applications	
	3	Frequency band	10 200 - 11 000 kHz	<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	9 dB μ A/m at 10 metres	
	8	Channel access and occupation rules	-	
	9	Authorisation regime	Licence exemption	
	10	Additional essential requirements	-	
	11	Frequency planning assumptions	-	
Informative part	12	Planned changes	-	
	13	Reference	EN 300 330; Decision 2013/752/EU amending Decision 2006/771/EC; ERC/REC 70-03	
	14	Notification number	2014/605/RO	
	15	Remarks	-	

ROMANIA	Radio Interface Specification	SRD / Inductive applications	RO-IR 09-20	Edition 1 / 2014
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	Nr	Parameter	Description	Comments
Normative part	1	Radiocommunication Service	Mobile	
	2	Application	Short Range Devices / Inductive applications	
	3	Frequency band	13 553 - 13 567 kHz	<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	42 dBµA/m at 10 metres	
	8	Channel access and occupation rules	-	
	9	Authorisation regime	Licence exemption	
	10	Additional essential requirements	-	
	11	Frequency planning assumptions	-	
Informative part	12	Planned changes	-	
	13	Reference	EN 300 330; Decision 2013/752/EU amending Decision 2006/771/EC; ERC/REC 70-03	
	14	Notification number	2014/605/RO	
	15	Remarks	-	

ROMANIA	Radio Interface Specification	SRD / Inductive applications	RO-IR 09-21	Edition 1/ 2014
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	Nr	Parameter	Description	Comments
Normative part	1	Radiocommunication Service	Mobile	
	2	Application	Short Range Devices / Inductive applications	
	3	Frequency band	26 957 - 27 283 kHz	<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	42 dBμA/m at 10 metres	
	8	Channel access and occupation rules	-	
	9	Authorisation regime	Licence exemption	
	10	Additional essential requirements	-	
	11	Frequency planning assumptions	-	
Informative part	12	Planned changes	-	
	13	Reference	EN 300 330; Decision 2013/752/EU amending Decision 2006/771/EC; ERC/REC 70-03	
	14	Notification number	2014/605/RO	
	15	Remarks	-	