

RO-IR UWB-05

TECHNICAL REGULATION

for the radio interface

concerning Short Range Radars (SRR)

operating in the 79 GHz range radio spectrum band

98/34/EC Notification number: 2010/705/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Directive 1999/5/EC (R&TTE Directive) was implemented in Romania (RO) by Government Decision no. 88/2003, republished, repealed by Government Decision no. 130/2015.

In accordance with Articles 4.1 and 7.2 of Directive 1999/5/EC, this Technical Regulation contains the requirements for the Licence Exempt use of automotive short-range radar equipment operating in the 79 GHz range radio spectrum band.

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

Automotive Short Range Radars (SRR)

Frequency band	Annex
77 - 81 GHz	RO-IR UWB-05

For the purpose of this Technical Regulation, *equipment using ultra-wideband (UWB) technology* means equipment incorporating, as an integral part or as an accessory, technology for short-range radiocommunication, involving the intentional generation and transmission of radio-frequency energy that spreads over a frequency range wider than 50 MHz, which may overlap several frequency bands allocated to radiocommunication services.

For the purpose of this Technical Regulation, *automotive short-range radar (SRR) equipment* means equipment providing road vehicle-based radar functions for collision mitigation and traffic safety applications;

For the purpose of this Technical Regulation, *79 GHz range radio spectrum band* means the frequency range between 77 and 81 GHz;

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 automotive short-range radar equipment operating in the 79 GHz range radio spectrum band is allowed on a non-interference and non-protected basis provided that such equipment meets the conditions set out in the Annex.

ROMANIA	Radio Interface Specification	SRD / UWB applications	RO-IR UWB-05	Edition 1/ 2010
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	Nr	Parameter	Description	Comments
Normative part	1	Radiocommunication Service	Mobile	
	2	Application	Short Range Devices / UWB applications/ Automotive Short Range Radars (SRR)	
	3	Frequency band	77 - 81 GHz	<i>Harmonisation of radio spectrum in the 79 GHz range for the use of automotive short-range radar equipment (Decision 2004/545/EC)</i>
	4	Channelling	-	
	5	Modulation / Occupied bandwidth	-	
	6	Direction / Separation	-	
	7	Transmit power / Power density	The maximum mean power density shall be of - 3 dBm/MHz effective isotropic radiated power (e.i.r.p.) associated with a peak limit of 55 dBm e.i.r.p. The maximum mean power density outside a vehicle resulting from the operation of one short-range radar shall not exceed - 9 dBm/MHz e.i.r.p.	
	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 302 264 ; Decision 2004/545/EC ; ECC/DEC/(04)03; ERC/REC 70-03	
	14	Notification number	2010/705/RO	
	15	Remarks	-	