

**RO-IR 17 (ITS)**  
**TECHNICAL REGULATION**  
**for the radio interface**  
**concerning Intelligent Transport Systems (ITS)**

**98/34/EC Notification number: 2010/657/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Directive 1999/5/EC (R&TTE Directive) was implemented in Romania (RO) by Government Decision no. 88/2003, republished, repealed by Government Decision no. 130/2015.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 stipulates the necessary equipment parameters for the use of Licence Exempt Intelligent Transport Systems (ITS) in the specified frequency 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](http://www.ancom.org.ro/en/interface-regulations-_2723)

## 2. Radio Interface Specifications

### Intelligent Transport Systems (ITS)

Frequency band	Annex
5 875 – 5 905 MHz	RO-IR 17 (ITS)

For the purpose of this Technical Regulation, *Intelligent Transport Systems (ITS)* mean a range of systems and services, based on Information and Communications technologies, including processing, control, positioning, communication and electronics, that are applied to a road transportation system;

For the purpose of this Technical Regulation, *mean equivalent isotropic radiated power (e.i.r.p.)* means e.i.r.p. during the transmission burst which corresponds to the highest power, if power control is implemented.

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 equipment against harmful interference originating from radio communications services.

The use of radio spectrum by Intelligent Transport Systems is allowed on a non-interference and non-protected basis provided that such equipment meet the conditions set out in the Annex.

ROMANIA	Radio Interface Specification	Intelligent Transport Systems (ITS)	RO-IR 17 (ITS)	Edition 1/ 2010
---------	-------------------------------	-------------------------------------	----------------	-----------------

	Nr	Parameter	Description	Comments
Normative part	1	Radiocommunication Service	Mobile	
	2	Application	Intelligent Transport Systems (ITS)	<i>Intelligent Transport Systems include cooperative systems based on vehicle-to-vehicle, vehicle-to-infrastructure and infrastructure-to-vehicle communications for the real time transfer of information.</i>
	3	Frequency band	5 875 – 5 905 MHz	<i>Harmonised radio spectrum for safety-related applications of Intelligent Transport Systems (ITS) (Decision 2008/671/EC)</i>
	4	Channelling	-	
	5	Modulation / Occupied bandwidth	-	
	6	Direction / Separation	-	
	7	Transmit power / Power density	Maximum spectral power density (mean e.i.r.p.): 23 dBm/MHz Maximum total transmit power (mean e.i.r.p.): 33 dBm	
	8	Channel access and occupation rules	Techniques to mitigate interference that provide at least equivalent performance to the techniques described in harmonised standards adopted under Directive 1999/5/EC must be used. These require a transmitter power control (TPC) range of at least 30 dB.	
	9	Authorisation regime	Licence exemption	
	10	Additional essential requirements	-	
	11	Frequency planning assumptions	-	
Informative part	12	Planned changes	-	
	13	Reference	EN 302 571; Decision 2008/671/EC; ECC/DEC/(08)01	
	14	Notification number	2010/657/RO	
	15	Remarks	-	