

Recommendation T/R 20-10 (Athens 1990, revised in Paris 1992 and in Madrid 1992)

**DIGITAL SHORT-RANGE RADIO (DSRR) EQUIPMENT INTENDED
TO PROVIDE SHORT-RANGE VOICE AND/OR DATA RADIOCOMMUNICATION
IN THE FREQUENCY BANDS 933-935/888-890 MHz**

Recommendation proposed by the "Radio Regulatory" Working Group (RR)

Text of the Recommendation adopted by the "European Radiocommunications Committee" (ERC):

"The European Conference of Postal and Telecommunications Administrations,

considering

- a) that Digital Short-Range Radio (DSRR) equipment intended to provide voice and/or data communication operated in the frequency bands 933-935/888-890 MHz, will be available for business and/or general purpose,
- b) that such equipment can meet the demands for short-range radiocommunications and in this way can contribute to the diminishing of the congestion in the other frequency bands allocated to the non-public land mobile service,
- c) that it would be desirable for Administrations to have common regulations at their disposal in order to control the use, the type approval, the marking and the free circulation of the DSRR equipment,
- d) that the technical characteristics and the methods of measurement for the DSRR equipment are harmonised and included in a European Telecommunication Standard,
- e) that the clear identification of DSRR equipment would facilitate free circulation of this type of equipment,

recommends

1. that CEPT member Administrations allow DSRR equipment complying with ETSI standard I-ETS 300 168 for Digital Short-Range Radio, to be used for business and/or general purpose by any person, subject to the common administrative conditions specified below,
2. that CEPT member Administrations designate the frequency bands 933-935 MHz and 888-890 MHz for use by DSRR equipment in accordance with Recommendation T/R 75-02 E (Note),
3. that Administrations
 - shall give DSRR-users the discretion to communicate with any other DSRR-user,
 - may, however, in the case of the two-frequency semi-duplex mode of operation, allow users to employ the facility available in base or repeater stations to send messages to and/or receive messages from only pre-selected parties,
4. that CEPT member Administrations adopt the rules for authorisation of DSRR equipment in conformity with the conditions set out in Annex 1 of this Recommendation,
5. that CEPT member Administrations adopt the rules for free circulation and marking of DSRR equipment in conformity with the conditions set out in Annex 2 of this Recommendation."

(Note)

In some countries parts of the band 888-890 MHz may be used for telecommand and telemetry, thus restricting the use of DSRR. However, in all cases, both control channels 888.6625 MHz and 889.3125 MHz shall be kept free from use by telecommand and telemetry equipment.

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Annex 1

CONDITIONS FOR THE USE OF DSRR EQUIPMENT

1. DEFINITIONS

- DSRR system: DSRR is a radiocommunication system in the land mobile service based on a dynamic frequency selection system providing digital short-range radiocommunications for voice and/or data in the frequency bands 933-935/888-890 MHz with a maximum output power of 4 W. It can encompass the following stations:
- Portable DSRR station: a station in the land mobile service intended to be used while carried by a person.
- Mobile DSRR station: a station in the land mobile service mounted in a vehicle and intended to be used while in motion or during halts at unspecified points.
- DSRR base station: a station in the land mobile service installed at a fixed location.
- DSRR repeater: a station in the land mobile service installed at a fixed location which is intended to establish radiocommunications between portable and/or mobile stations.

2. USE OF THE STATION

- 2.1. The DSRR-user may use the equipment for business and/or general radiocommunications and is allowed to select the wanted communication partner as stated in Recommends 3.
- 2.2. It shall not be allowed to use the equipment for other purposes, for instance for transmission or retransmission of:
- broadcast programmes or music,
 - false or misleading distress traffic.
- 2.3. To avoid congestion on traffic channels, each portable/mobile station shall have a time limitation of 3 minutes for the communication period.
- 2.4. When Administrations have decided to issue licences for repeaters and/or base stations, these licence holders operating in the two-frequency semi-duplex mode shall, in order to limit unauthorised access to these stations, maintain a user database into which the selective calling codes of the authorised users are entered.

To avoid contention between these stations, they shall not register a mobile which is already registered in the database of a station which shows an overlapping coverage area. The registrations shall be made available to the licensing authority upon request.

3. CONFIGURATION OF THE SYSTEM

The choice of one-frequency or two-frequency operation will be left to the user of the equipment dependent on the specific communication requirement.

4. TYPE APPROVAL OLD DSRR EQUIPMENT

The DSRR equipment shall be type-approved and bear a type-approval mark.

5. AUTHORISATION

- 5.1. With the exception of equipment described in 5.2. below, the use of DSRR equipment shall be granted by means of a general permission.
- 5.2. The conditions of operation of stations, which are connected to an external antenna that is mounted at a fixed location, shall be at the discretion of Administrations.

6. IDENTIFICATION CODES

Every station shall have a unique identification code for monitoring purposes.

Identification codes of base stations and repeater stations would be required to be registered with the Administrations or responsible issuing authorities at their discretion.

7. ANTENNA SPECIFICATIONS

Type and height of the antenna for stations at a fixed location shall be at the discretion of Administrations.

However, in accordance with the Considering b), national regulations shall ensure that the antenna system is designed and installed to avoid excessive coverage.

8. ANY OTHER USE

1. DSRR equipment shall not be used either on board aircraft of any kind, or as an aeronautical station.
2. DSRR equipment shall not be connected to the public telecommunication network.

9. FREQUENCIES

Mobile and portable stations may be capable of transmitting in the frequency band 933-935 MHz and/or 888-890 MHz (see table).

Base stations and repeater stations transmit only in the frequency band: 933-935 MHz (see table).

Mode A: simplex in the frequency band: 933-935 MHz

Mode B: semi-duplex in the frequency band: 933-935 MHz, paired with 888-890 MHz

Transmit frequencies DSRR (MHz)			
Equipment	Mode A	Mode B	Both A and B
Portable	933-935	888-890	both bands
Mobile	933-935	888-890	both bands
Base station	933-935	933-935	933-935
Repeater	not possible	933-935	not possible

Annex 2

CONDITIONS FOR THE FREE CIRCULATION AND MARKING OF DSRR EQUIPMENT COVERED BY THIS RECOMMENDATION

1. Each Administration shall allow the temporary use of DSRR equipment which is authorised by the Administration of the visitor.
2. An Administration shall indicate either by an entry on its licence form or through issuing a general permission that the use of DSRR equipment is authorised during a temporary stay in any country which has accepted this Recommendation.
3. A CEPT Administration shall accept an easily visible and identifiable mark, placed on the DSRR equipment, in the following form:

[CEPT DSRR X]

(X being the symbol of the country where the equipment received type approval).

This symbol could be followed by the national authorisation number.

The symbols to be used should be as shown in the following table:

Country	Symbol	Country	Symbol
Albania	AL	Lithuania	LE
Austria	A	Luxembourg	L
Belgium	B	Malta	M
Bulgaria	BG	Monaco	MC
Croatia	CE	Netherlands	NL
Cyprus	CY	Norway	N
Czech and Slovak (Federal Republic)	CS	Poland	PL
Denmark	DK	Portugal	P
Finland	SF	Romania	R
France	F	San Marino	RSM
Germany	D	Spain	E
Greece	GR	Sweden	S
Hungary	H	Switzerland	CH
Iceland	IS	Turkey	TR
Ireland	IRL	United Kingdom	GB
Italy	I	Vatican City	SCV
Liechtenstein	FL	Yugoslavia	YU