



ISR 9220 MX

The Mobile Radio designed for the user

Operating on trunk or conventional networks the ISR 9220 MX terminals assure high-quality and high-reliability communications, even in the most difficult context.

The ISR 9220 MX range complies with the European regulations and with ETS 300 086, ETS 300 113 and ETS 300 279 Telecommunication Standards for electro-magnetic compatibility.



Ergonomics

The terminal interface consists in a large, clear back-lit display on which the user can easily read short data messages.

This screen is the most complete one available, very user-friendly with its roll-down menus and programmable software keys. Self-explanatory icons constantly display the incoming signal strength and volume.

Encryption

In order to secure the user, an encryption module can be added to reach the highest level of confidentiality.

Protection against unauthorized use

System access is controlled by authentication mechanisms. In case of loss or theft, the terminal can be disabled by remote control.

Customization

The 9220 MX can be configured as a desktop unit or as an extractable car radio with automatic switching and locking.

It's very simple to customize the terminal with a standard PC, for particular user application and network configuration.

Trunk and direct mode

The terminal provides both direct mode and trunk operation using the radio communication infrastructure.

It complies with signalling standards: 5 tones, CCIR, ZVEI 1 & 2, CTCSS on conventional networks.

The 9220 HX supports every major protocol: MPT 1327, 1343, Regionet 43, SP/DRG/R.RS/3 on trunk networks.

In addition, it provides data transmission protocol MAP 27 and trunk network key functionalities as FOACSU / OACSU and Vote Now Advice (VNA).

Data transmission

The 9230 MX allows any type of data exchange when connected to a PC.

Telephone access

Dialling a one-digit prefix provides PABX / PSTN communications.

Emergency operation

A dedicated key enables instantaneous access to a central terminal.

Full range of accessories

Car radio kit, desktop base radio, audio equipment, optional driver kit (including external call alert, automatic dashboard/display light connection, car radio muting for incoming calls...), answering message, badge kit are available.



TECHNICAL SPECIFICATIONS of ISR 9220 MX range

Model	9221 MX	9223 MX	9226 MX	9227 MX
MHz	146-174	68-88	406-430	440-470

Transmission characteristics

Power	VHF up to 25 W, UHF up to 15 W
Modes	Half duplex, simplex
Modulation	FM / PM
Distortion	< 4%

Reception characteristics

Sensitivity at 12 dB SINAD	0.28 μ V
Sensitivity at 20 dB SINAD	0.56 μ V
Intermodulation protection	> 75 dB
Selectivity / adjacent channel	> 72 dB
Maximum AF power	0.5 W
Residual modulation	40 dB

Power supply	10.8 to 15.6 V
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Power consumption

Stand-by (without carrier or scanning)	0.2 A
Reception at 0.3 W AF	1.3 A
Transmission at 12.5 W	4.5 A

PHYSICAL CHARACTERISTICS

Size	172 x 170 x 55 mm
Volume	1.2 l
Weight	1.1 kg

Operational temperature	-20° to +55°C (ETS standards)
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