

M9610 CS G1 / M9610 CM G1

Smart / Easy + G1 car mobile terminal



User benefits

- ✓ Voice and data transmission.
- ✓ Secure and digital communications in trunked, repeater, and direct modes.
- ✓ Wide coverage in direct BS connected mode.
- ✓ Car radio installation, on the dashboard or as car radio.
- ✓ Data terminal connection possibility for database access.

Functions

- ✓ Fully digital.
- ✓ High voice quality and data encryption.
- ✓ Works in direct BS connected mode.
- ✓ Access to all M9600 network features:
 - group or individual calls, emergency calls, direct mode, status,
 - data transmission, short messages, user priority management, etc.
- ✓ SMS transmission and reception (V35 only).



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Components and interfaces

The control panel is available in 2 configurations depending on the user's requirements

- ✓ **M9610 CS G1: Smart** : 25 keys: alphanumeric keypad, function keys and one emergency key, fully backlit.



- ✓ **M9610 CM G1: Easy +** : 9 function keys and one emergency key, fully backlit.

Equipment included (dimensions: H/W/D mm):



Smart control panel: 48/172/51 *or*



Easy + control panel: 48/172/51



Extraction device



Microphone - loudspeaker



Microphone support



Transceiver: 43/220/158



In these two configurations, a microphone with remote functions such as push-to-talk is connected to the control panel.

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Additional essential elements to be ordered separately

✓ **CAR INSTALLATION KIT : two types of support are available depending on the vehicle configuration**

- **M9610 IK1 G 1:** DIN car installation kit, for installing the control panel as a car radio.



DIN car support: 53/182/61



7.5 m cable



BER bracket 56/235/225

- **M9610 IK2 G 1:** Car dashboard installation kit fitted on top of the dashboard



Dashboard holder 87/208/45



7.5 m cable



BER bracket 56/235/225

✓ **ANTENNA KIT : M9610 AN G1 or supplied by the customer**

Options to be ordered separately

- ✓ **M9610 AA 15W G1 :** Pair of 15 W loudspeakers (equips two car terminals)
- ✓ **M9610 GPS :** On-board vehicle location system (AVL)
- ✓ **M9610 C CV G1 :** Discreet car kit

Technical specifications

Applicable standards:

Tetrapol PAS & EN 300-113-2

Display: 3 lines / 16 characters
Backlit

Keyboard: 25 or 9 keys, depending
on the model

Operating mode: "Trunked" mode
BS connected mode
Direct mode

Power supply: 13.2 V DC

Consumption (A):
Transmission 4 A max
Reception 0.5 A max

Radio specifications:

Transmitter

Power: 10 W
Frequency stability Better than ± 2.5 ppm
Spurious emissions Better than -36 dBm

TX Wide band noise Better than -87 dBm

Adjacent channel power Better than -60dBc
High S.W.R. (standing-wave ratio) Automatic reduction of radiated power

Access mode: FDMA

Transmission type Half duplex (BS connected mode)
Simplex (direct mode)

Data interface: V24/V28 4.8&9.6 kb/s

Audio specifications:

Vocoder: Free fall (gooseneck, hand controller and desktop support)

Receiver

Static sensitivity Better than -119 dBm
Dynamic sensitivity Better than -111 dBm
Adjacent channel selectivity Better than 60dB

Spurious response rejection Better than 70dB

Spurious radiation Better than -57 dBm
Blocking Better than 115 dB

Frequency band (MHz)

380-430 and 440-470 MHz sub-bands
Other bands on request

Duplex separation: Up to 20 MHz

Channel spacing: 10 or 12.5 kHz

Bandwidth: Up to 5 MHz

Modulation: 0.25 GMSK

Channel bit rate: 8 kb/s

Technology : Fully digital

Encryption: End to end

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Environmental specifications (CEI standards)

Standard	Severity	
Operating temperature:	CEI 68-2	Dry heat +60°C/30%RH Cold -30°C Humid heat +40°C/95%RH
Storage temperature:	CEI 68-2	Dry heat +70°C/30%RH Cold -40°C Humid heat cycle: +25°C / 98% RH +55°C/93%RH
Dust and water protection	CEI 529	IP54 (BER and bracket with cables)
Saline protection	CEI 68-2	(Transceiver and support with cables)
Free fall	CEI 68-2	Height = 0.5 m on concrete
Vibration (functional):	CEI 68-2	Bump, random and sinusoidal vibrations
Bumps (functional):	CEI 68-2	30 g/6ms, 1000/axis & direction

Conformity with other standards

CE marking in accordance with directive R&TTE 1999/5/CE	EN 300 113-2 (radio standard)
e marking in accordance with car directive 95/54/CE	ETS 300 279 (CEM Standard)
	EN 60950 (Electrical safety standard)

