

# 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.
- ✓ Phonebook, 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

**Radio specifications:**

<b>Display:</b>	3 lines / 16 characters Backlit	<b>Transmitter</b>	Power: 10 W Frequency stability: Better than $\pm 2.5$ ppm Spurious emissions: Better than -36 dBm	<b>Receiver</b>	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
<b>Keyboard:</b>	25 or 9 keys, depending on the model	<b>TX Wide band noise</b>	Better than -87 dBm	<b>Blocking</b>	Better than 115 dB
<b>Operating mode:</b>	"Trunked" mode BS connected mode Direct mode	<b>Adjacent channel power</b>	Better than -60dBc	<b>Frequency band (MHz)</b>	380-430 and 440-470 MHz sub-bands Other bands on request
<b>Power supply:</b>	13.2 V DC	<b>High S.W.R. (standing-wave ratio)</b>	Automatic reduction of radiated power	<b>Duplex separation:</b>	Up to 20 MHz
<b>Consumption (A):</b>		<b>Access mode:</b>	FDMA	<b>Channel spacing:</b>	10 or 12.5 kHz
Transmission	4 A max	<b>Transmission type</b>	Half duplex (BS connected mode) Simplex (direct mode)	<b>Bandwidth:</b>	Up to 5 MHz
Reception	0.5 A max	<b>Data interface:</b>	V24/V28 4.8&9.6 kb/s	<b>Modulation:</b>	0.25 GMSK
		<b>Audio specifications:</b>		<b>Channel bit rate:</b>	8 kb/s
		Vocoder:	Free fall (gooseneck, hand controller and desktop support)	<b>Technology :</b>	Fully digital
				<b>Encryption:</b>	End to end

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### Environmental specifications (CEI standards)

Standard		Severity	
Operating temperature:	CEI 68-2	Dry heat Cold Humid heat	+60°C/30%RH -30°C +40°C/95%RH
Storage temperature:	CEI 68-2	Dry heat Cold Humid heat	+70°C/30%RH -40°C 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  
e marking in accordance with car directive 95/54/CE

EN 300 113-2 (radio standard)  
ETS 300 279 (CEM Standard)  
EN 60950 (Electrical safety standard)

