

M9620 S G2 / M9620 M G2

Smart handportable / Easy + handportable



User benefits

- ✓ Secure digital communications in Network, Repeater, and Direct modes.
- ✓ Robust and compact handportable range.
- ✓ High-autonomy batteries with intelligent recharge.
- ✓ User-friendly MMIs similar to the mobile range.
- ✓ Universal connector allowing the use of a range of accessories adapted to various working conditions.
- ✓ Power limited to 2W in accordance with the European health directives against Radio Frequency radiation.

Functions

- ✓ The radio terminal is available in two models : "Easy +" and "Smart" which offer the following services:
End-to-end voice and data encryption.



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Network mode

	Smart	Easy +
Voice services		
Group call	Yes	yes
SCAN	Yes	(1)
Private call	Yes	yes
Telephone call	Yes	yes
Emergency call	Yes	yes
Priority call	Yes	yes
Data services		
Data carriage	Yes	yes
Status	(2)	(2)
Short messages	(2)	(3)
Phonebook	yes	yes
Inter. of integrated DB	Yes	no

Repeater and Direct modes

	Smart	Easy +
Voice services		
Direct mode call	yes	yes
BS connected mode call	yes	yes
Emergency call	yes	yes
Dualwatch	yes	yes

Comfort services

	Smart	Easy +
Battery information	yes	yes
Predefined calls	99	99
Data storage	yes	no
Eavesdropping	yes	yes
Loud-speaker function	yes	yes
Earpiece function	yes	no
Calls received	yes	yes
Call forward	yes	(1)
Caller identity	yes	yes
Speaker identity	yes	yes

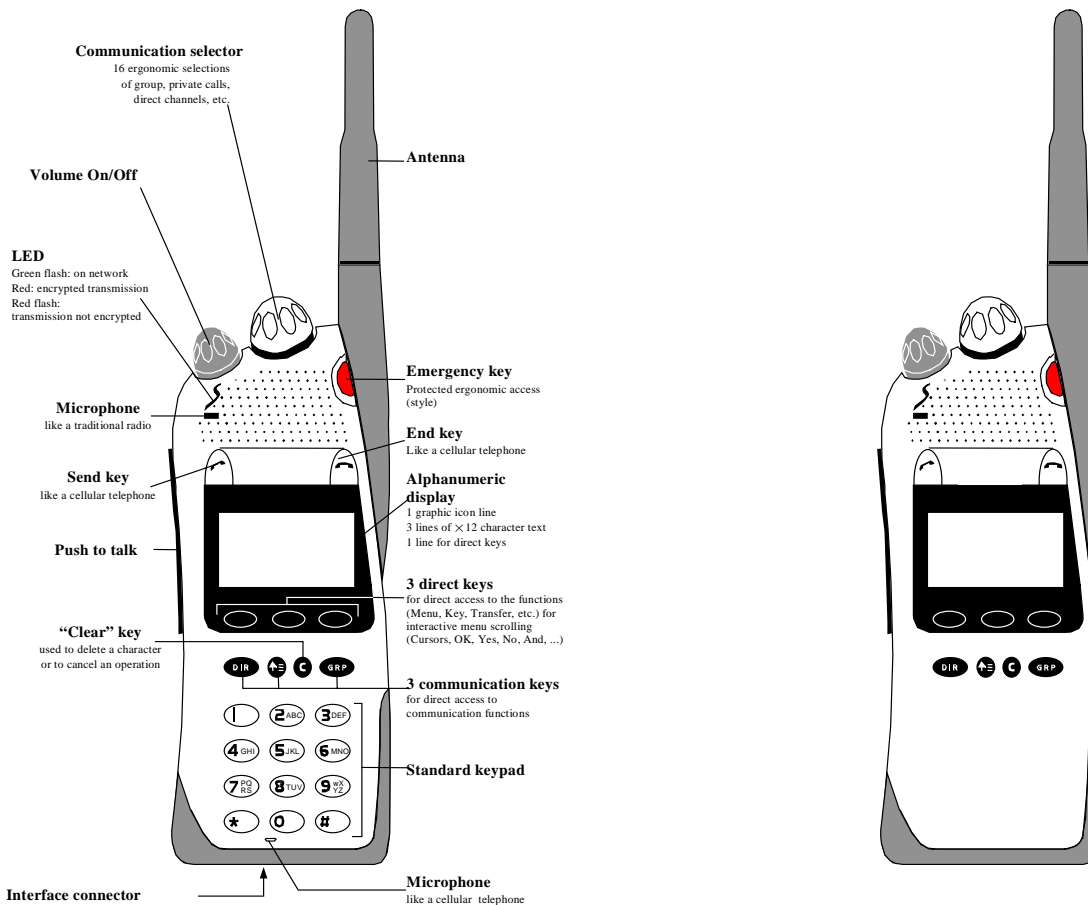
(1) predefined only

(2) transmission/reception

(3) reception only

(4) optional

(5) handset accessories



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Information display

Registration with reception level
Encryption
Active communication
Message
Monitoring mode
Call forward
Menu
Battery level
"14" is the selected predefined call



Universal connector

Robust, watertight, easy to connect and disconnect without tool.

Components & interfaces

Components:

- ✓ Handportable
- ✓ Standard battery (NiMH, 1450 mA.h): M9620 EN B1 G2
or high capacity battery (NiMH, 2 A.h): M9620 EN B1 HC G2
Battery may or may not be supplied with the handportable
- ✓ Antenna: M9620 AN G2 UL or M9620 AN G2 UM
(depending on the frequency band: 380/430 MHz or 440/490 MHz)
- ✓ Installation guide

Interfaces:

- ✓ Accessory connector: 20 pins
 - External power supply
 - Car antenna
 - Data transmission
 - Charger / SMBUS
 - IO/I²C bus
 - Microphone / loudspeaker
- ✓ SIM: iso SIM card (not developed)

Additional essential elements to be ordered separately

None

Options to be ordered separately

- ✓ Belt clip pivot : **M9620 CE BC G2**
- ✓ Leather bag : **M9620 CE LB G2**
- ✓ Leather belt bag : **M9620 CE LB2 G2**
- ✓ Extended antenna (170 mm, +1,7 dBi) : **M9620 AN E G2**
- ✓ Single-unit charger : **M9620 EN CBU G2**
- ✓ Multi-unit charger : **M9620 EN CPA G2**
- ✓ Travel charger kit : **M9620 EN TCK G2**
(2 power supply sources possible: mains or cigarette-lighter)
- ✓ Pedestrian LS microphone : **M9620 AA SM1 G2**
- ✓ Pedestrian LS microphone with jack : **M9620 AA SM2 G2**
- ✓ Covert accessories : **M9620 CV xx G2**
- ✓ Car adapter : **M9621 CA G2**
- ✓ 10 W car adapter : **M9621 CAB G2**
- ✓ Desktop adapter : **M9622 DA G2**
- ✓ Data terminal cable : **M9621 EC1 G2**

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Technical specifications

Size : (without antenna)	140x62x33mm	Conformity with standards:		Receiver:	
Weight:	420g with batt & ant 255g without batt & ant	PAS Tetrapol & ETSI ETS 300-113		Static sensitivity	< -119 dBm
Display:	Backlighting 4 lines of 12 characters 1 icon line	Radio specifications:		Dynamic sensitivity	< -111 dBm
Antenna:		Transmitter:		Adjacent channel selectivity	> 60 dB
Standard length	82 mm	Power:		Spurious signal protection	
Standard gain	0 dBi	Frequency stability	< ±2,5 ppm	Spurious emissions	< -57 dBm
Type	Flexible rubber	Spurious emission	< -36 dBm	Frequency band (MHz):	
Digital key:	Backlit Lockable Alpha (SMART only)	Adjacent channel radiation	< -60 dBc	380-430 MHz	
Call selector:	16 positions	Wide band noise	< -87 dBm	440-490 MHz	
Autonomy: for a 1450mAh battery with average consumption possibility in each of the modes: Standby / Reception / Transmission		High SWR resistance	VSWR > 5	Other bands on request	
Typical	8 H (60/35/5) 10 H (90/5/5)	Working mode: (access to 99 calls)		Duplex separation:	5 to 15 MHz
Battery:		« Trunked » mode	yes	Channel spacing:	10 or 12.5 kHz
Technology-Capacity	NiMH-1450mAh	BS connected mode	yes	Modulation:	0.25 GMSK
Charge control	SMBUS protocol	Direct mode	yes	Channel bit rate:	8 Kbit/s
Life cycle – capacity	>80% after 500 cycles >50% after 1000 cycles	Access mode:	AMRF	Other features:	
		Transmission type:		100 numbers memorised	
		Half duplex (BS connected mode)		100 statuses	
		Simplex (direct mode)			
		Technology :	Fully digital		
		Acoustics:			
		Maximum output level: >80dBspl/50cm			
		Vocoder RP-CELP			
		Filtering of ambient noise			
		Encryption: End to end, integrated			
		Data interface:			
		RS232 (with accessories), 9.6 kbps			

Environmental specifications

CE marking in accordance with directive R&TTE 1999/5/CE.

ETS 300279 (CEM Standard)
EN 60950 (Electrical safety)
ETS 300-113 (radio standard)
Recommendation 1999/519/CE (EMF – SAR – Biological effect)

Standard

Operating temperatures

CEI 68-2-1
CEI 68-2-2

Severity

-20°C
+55°C
0°C/+40°C/93%RH

Thermal shock

Storage temperatures

CEI 68-2-30
CEI 68-2-1
CEI 68-2-2
CEI 68-2-30

+70°C
cycle +25/55°C ; 98/90%RH

Humid heat variation

Dust and water protection

Saline protection

Free fall

Vibration (functional)

Shock (functional)

SAR

CEI 529
CEI 68-2-11
CEI 68-2
CEI 68-2-6
CEI 68-2-29
ENV 50.166-2

IP 54

5% Na Cl, +35°C

Height = 1.5 m on concrete

Random and sinusoidal vibrations

25g/6ms, 1000/axis & direction

Workers level, average weight 10g, average time 6mn, required SAR spatial peak 10W/kg

