

M9665 GATEPRO WB

Gatepro WB



User benefits

- ✓ Thanks to compact suitcase form factor, transportable, resistant to severe operational conditions, M9665 GATEPRO WB can be turned into operation in a very fast manner by a non-technician operator.
- ✓ Used in conjunction with IDR (portable repeater), M9665 GATEPRO WB product offers in a very short time and efficient manner a temporary coverage extension, for special missions or particular events
- ✓ M9665 GATEPRO WB product also offers interoperability between 2 communications established on 2 different TETRAPOL networks, at borders as an example.
- ✓ Voice buffer technology used in the Gatepro keeps communication integrity, even the shortest ones.
- ✓ Moreover, M9665 GATEPRO WB product allows organisations involved in the group communications to keep their ciphered communications

Functions


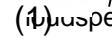
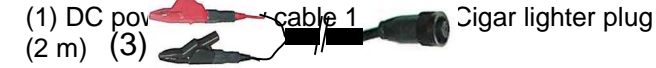
- ✓ Operational voice Interconnection between 2 organisations from 2 different TETRAPOL networks (or from same TETRAPOL network)
- ✓ Services : Open channel, group communications, direct mode / repeated mode (IDR), ciphered and non-ciphered communications

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Components and interfaces

Components :

- ✓  (1) 2 WI, 2 m
- ✓  (1) battery
- ✓  (1) DC power supply cable 12V with pods (3 m) Cigar lighter plug (2 m) (3)
- ✓ (2) DC power supply cable 12V with pods (3 m)
- ✓ (3) DC power supply cable 12V with croc. clips (3 m)
- ✓ Ground/earth cable with pod-end-crocodile clip (3 m)
- ✓ Antennae (quantity : 2) + cables (3 m)
- ✓ Antenna cable extension Conn N M/F (20m)
- ✓ Kit of 3 extra fuses

Interfaces :



Rear Panel connectors :



Gatepro can be installed on field or used in a vehicle. All necessary items to operate are included as a basis into the suitcase (antennae, battery, supply cables notably).

Antennae connectors are protected against lightning.

Additional accessories can be ordered separately.

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Accessories to be ordered separately

- | | |
|--|-----------------------------|
| ✓ Kit diplexeur for interoperability between 80 MHz and another frequency band within 380-512 Mhz (contains 1 double diplexeur and 2 cables) | M9665 GATEPRO EXT1 |
| ✓ Transport trolley | M9665 TROL |
| ✓ Accessoiry Pouch | M9665 BAG |
| ✓ US main plug | M9665 C OPT KC SCT B |
| ✓ UK main plug | M9665 C OPT KC SCT C |
| ✓ AC 230 V lightning protection, EEC plug | M9665 IK2 – AC |
| ✓ AC 230 V lightning protection, UK plug | M9665 C OPT PFDR B |
| ✓ Antenna extension cable 20 m – Conn N M/F | M9665 GATEPRO AN2 |

Technical Specifications

General specifications

Radio protocol standard	TETRAPOL	Compliant with PAS TETRAPOL
Access method	Frequency Division Multiple Access (FDMA)	
Communications	Voice between terminals	
Transmission type	Half Duplex	Digital
Frequency range	380-430, 440-490 MHz with 10 MHz duplex spacing	Other bands on request Other Duplex Spacing possible with or without half-channel offset
Channel spacing	12.5 kHz or 10 kHz	
Bandwidth	5 MHz	
Antennae	380-430 or 440-490 MHz : $\lambda/2$, gain 0 dBi 80 MHz : $\lambda/4$, gain 0 dBi	Clip attachment
Power supply	12V DC or 220V/110V AC 50/60 Hz	
Power consumption	7 A max / 13.2 V DC 2,5 A standby mode	
Supply Short cuts	EN 61000-4-11	CE mark
Battery	Battery life : 1 H	(10 Watts cycle 70% TX/ 30% standby)
size (mm)	530 x 445 x 225 (Overall dimensions)	
Weight	About 25 Kg	without cable extension and optional accessories
Electromagnetic compatibility	ETS 301-489	CE mark
User security and electrical safety	IEC 950 & EN 60950	CE mark
Acoustic noise	ETSI EN 300-753	Class 3.1



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Technical Specifications (cont'd)

Environmental specifications

Operating Temperature range :	- 20 to + 55 ° C	IEC 68-2-2 :	Dry heat +55°C/30%HR
		IEC 68-2-1 :	: Cold – 20 °C
		IEC 68-2-56 :	Damp Heat: +40°C/95%HR
Storage Temperature range :	- 40 to + 70 ° C	IEC 68-2 :	Dry heat +70°C/30%HR
		IEC 68-2-1 :	Cold : - 40 °C
		IEC 68-2-30 :	Damp Heat : +25°C/95%HR
			+55°C/90%HR
Water and Dust protection:	IP54	IEC 529	
Salt mist :	Protected	IEC 68-2-11	96 h, 5% NaCl, +35°C
Free fall :	Height = 25 cm on concrete	IEC 68-2-32 te	
Vibrations (functionnal) :	Random vibrations	IEC 68-2-36	
	Sinusoidal Vibrations	IEC 68-2-6	
	Chocks	IEC 68-2-27	40g/6ms, 3/axe & direction
	Bumps	IEC 68-2-29	25g/6ms, 500/axe & direction

Transmitter specifications

ETSI compliance	ETSI EN 300-113-1 & -2	CE mark
RF power output	10 Watts	
RF output impedance	50 ohms	
Frequency stability	Better than +/- .5 ppm.	
Adjacent channel power	-60 dB (normal conditions)	from 0 to +40°C
Spurious emissions	Less than -36 dBm (normal conditions)	ETSI requirements (EN 300-113)

Receiver specifications

ETSI compliance	ETSI EN 300-113-1 & -2	CE mark
RF input impedance	50 ohms	
Sensitivity : static	-118 Bm typical	Digital error rate < 0.015 and Frame error rate < 0.03
Sensitivity : dynamic	Better than – 111 dBm	
Adjacent channel selectivity	Greater than 60 dB (normal conditions)	ETSI requirements (EN 300-113)
Spurious response rejection	Greater than 70 dB (normal conditions)	ETSI requirements (EN 300-113)
Spurious radiation	Less than -57 dBm (normal conditions)	ETSI requirements (EN 300-113)

