TWO-WAY RADIOS

GP680: The Versatile Radio

The GP680 is essential for growing organisations because of its unique versatility. When necessary, the radio can easily be programmed in the field to add or delete features. So, whether it's the harsh environment of a construction site or the elegance of an exclusive hotel, the radio of choice is the Versatile. It's the radio that grows with you.



A wide array of features include:

- Signalling
 The fully compliant MPT signalling
 package includes MPT1343, Regionet 43
 and ANN modes of operation. Radios
 are configurable for up to 4
 personalities including Talkgroup Select
 and Conventional signalling.
- X-Pand[™] Voice Compression and Low Level Expansion
 Crisp, clear and strong audio quality in virtually any noisy environment. Low level expansion allows further improvements in audio quality by reducing noise usually heard during pauses in conversation.
- User Information
 A 14-character alpha-numeric display contains a battery gauge and signal quality indicator and provides separate distinctive tones plus name decode for many incoming calls.
- Ease of Use
 Rapidcall™ one touch dialling, simple
 menus and an alpha-numeric
 phonebook/contact list make the full
 power of GP680 simple and intuitive to
 use.

- Dynamic Regrouping Provides over-the-air reconfiguration of the radio plus download of group identity in a meaningful alpha-numeric form.
- Option Board Expandability
 You can expand the capabilities of
 GP680 by adding option boards such as
 Voice Storage.
- Wideband and Programmable Channel Spacing Provides flexibility in deployment and stocking

Please check with your dealer for availability on specific option boards.



GP680 Portable Two-Way Radio Specifications

General Specifications			
Channel Capacity	16 (Conventional Mode)		
Power Supply	Rechargeable battery 7.5v		
Dimensions: H x W x D (mm) With standard high capacity NiMH battery With ultra high capacity NiMH battery With NiCD battery With Lilon battery	Height excluding knobs 137 × 57.5 × 37.5 137 × 57.5 × 40.0 137 × 57.5 × 40.0 137 × 57.5 × 33.0		
Weight: (gm) With Standard high capacity NiMH battery With Ultra high capacity NiMH battery With NiCD battery With Lilon battery	428 508 458 358		
Average Battery Life @5/5/90 Cycle: With Standard high capacity NiMH battery With Ultra high capacity NiMH battery With NiCD battery With Lilon battery	Low Power 11 hours 14 hours 12 hours 11 hours	High Power 8 hours 11 hours 9 hours 8 hours	
Sealing:	Withstands rain testing per MIL STD 810 C/D/E and IP54		
Shock and Vibration:	Protection provided via impact resistant housing exceeding MIL STD 810-C/D/E and TIA/EIA 603		
Dust and Humidity:	Protection provided via environment resistant housing exceeding MIL STD 810 C/D/E and TIA/EIA 603		

Portable Military Standards 810 C, D, & E							
	810C		810D		810E		
Applicable MIL-STD	Methods	Procedures	Methods	Procedures	Methods	Procedures	
Low Pressure	500.1	1	500.2	2	500.3	2	
High Temperature	501.1	1,2	501.2	1,2	501.3	1,2	
Low Temperature	502.1	1	502.2	1,2	502.3	1,2	
Temp. Shock	503.1	1	503.2	1	503.3	1	
Solar Radiation	505.1	1	505.2	1	505.3	1	
Rain	506.1	1,2	506.2	1,2	506.3	1,2	
Humidity	507.1	2	507.2	2,3	507.3	2,3	
Salt Fog	509.1	1	509.2	1	509.3	1	
Dust	510.1	1	510.2	1	510.3	1	
Vibration	514.2	8,10	514.3	1	514.4	1	
Shock	516.2	1,2,5	516.3	1,4	516.4	1,4	

Transmitter	
*Frequencies - Full Bandsplit	VHF: 136-174 MHz UHF 1: 403-470 MHz UHF 2: 450-527 MHz
Channel Spacing	12.5/20/25 kHz
Frequency Stability (-25°C to +55°C, +25° Ref.)	±2.5 ppm
Power	136-174: 1-5W 403-470: 1-4W 450-527: 1-4W
Modulation Limiting	±2.5 @ 12.5 kHz ±4.0 @ 20 kHz ±5.0 @ 25 kHz
FM Hum & Noise	-40 dB typical
Conducted/Radiated Emission	-36 dBm <1 GHz -30 dBm >1 GHz
Adjacent Channel Power	-60 dB @ 12.5 kHz -70 dB @ 20/25 kHz
Audio Response (300-3000Hz)	+1 to -3 dB
Audio Distortion	3%

Receiver			
*Frequencies - Full Bandsplit	VHF: 136-174 MHz UHF 1: 403-470 MHz UHF 2: 450-527 MHz		
Channel Spacing	12.5/20/25 kHz		
Frequency Stability (-25°C to +55°C, +25° Ref.)	±2.5 ppm		
Sensitivity (12 dB SINAD) EIA Sensitivity (20 dB SINAD) ETS	.25 μV typical .50 μV typical		
Intermodulation EIA	70 dB		
Adjacent Channel Selectivity	60 dB @ 12.5 kHz 70 dB @ 20/25 kHz		
Spurious Rejection	70 dB		
Rated Audio	0.5W		
Audio Distortion @ Rated Audio	3% typical		
Hum & Noise	-40 dB @ 12.5 kHz -50 dB @ 20/25 kHz		
Audio Response (300-3000 Hz)	+1 to -3 dB		
Conducted Spurious Emission	-57 dBm <1 GHz -47 dBm >1 GHz ETS 300 086		

Data for +25°C unless otherwise specified

Specifications are subject to change without notice and are issued for guidance purposes only.

All specifications listed are typical. Radios meet applicable regulatory requirements.

Conforms to EC directive 89/336/EEC

Complies with ETS 300 113

Contact your local Authorised Motorola Dealer to find out more about how communicating with the Professional Radio series will benefit your organisation.

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For exceptional performance, reliability and quality, Motorola Original accessories and batteries are the only options. For full details, please refer to the Professional Radio Series Accessories brochure.









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