



TWO-WAY RADIOS

## GP688: The Small Versatile Radio

The GP688 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 compact 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**  
*One touch dialling, simple menus and an alpha-numeric phonebook/contact list make the full power of GP688 simple and intuitive to use.*
- **Dynamic Regrouping**  
*Provides over-the-air reconfiguration of group identity in a meaningful alpha-numeric form.*
- **Wideband and Programmable Channel Spacing**  
*Provides flexibility in deployment and stocking*



As Dedicated As You Are

# Professional Radio

# GP688 Portable Two-Way Radio Specifications

General Specifications	
Power Supply	Rechargeable battery 7.5V
Dimensions: H x W x D (mm)	Height excluding knobs
With standard Lilon battery	101.5 x 55.5 x 33.0
With high capacity Lilon battery	101.5 x 55.5 x 38.0
Weight: (gm)	
With Standard Lilon battery	265
With high capacity Lilon battery	285
Average Battery Life @5/5/90 Cycle:	Low Power      High Power
With Standard Lilon battery	>9 hours      >7 hours
With high capacity Lilon battery	>13 hours      >10 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

Transmitter	
*Frequencies - Full Bandsplit	UHF 1: 403-470 MHz
Channel Spacing	12.5/20/25 kHz
Frequency Stability (-30°C to +60°C, +25° Ref.)	0.00025%
Power	Low: 1W High: 4W
FM Hum & Noise	-40 dB typical
Spurs/Harmonics	-36 dBm <1 GHz -30 dBm >1 GHz
Audio Response (300-3000Hz)	+1 to -3 dB
Audio Distortion	<5% typical

Portable Military Standards 810 C, D, & E						
Applicable MIL-STD	810C		810D		810E	
	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

Receiver	
*Frequencies - Full Bandsplit	UHF 1: 403-470 MHz
Channel Spacing	12.5/20/25 kHz
Sensitivity (12 dB SINAD) EIA	0.35 µV typical
Intermodulation ETS	-65 dB
Adjacent Channel Selectivity	60 dB @ 12.5 kHz 70 dB @ 25 kHz
Spurious Rejection	-70dB
Rated Audio	0.5W
Image Rejection	-70dB

Data for +25°C unless otherwise specified

\* Availability subject to individual country's laws and regulation.

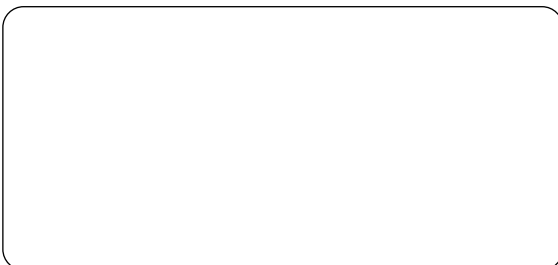
Specifications are subject to change without prior notice and are issued for guidance purposes only.

Radios meet all applicable regulatory requirements.

Conforms to RTTE Directives: 1999/5/EC

Relevant standards: EN300 086-2, EN300 113-2, EN301 489-05

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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