



MOTOROLA

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 the radio plus download 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	
Channel Capacity	16 (Conventional Mode)
Power Supply	Rechargeable battery 7.5v
Dimensions: H x W x D (mm) With standard Lilon battery With high capacity Lilon battery	Height excluding knobs 101.5 x 55.5 x 33.0 101.5 x 55.5 x 38.0
Weight: (gm) With Standard Lilon battery With high capacity Lilon battery	265 285
Average Battery Life @5/5/90 Cycle: With Standard Lilon battery With high capacity Lilon battery	Low Power >9 hours High Power >7 hours >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

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

Data for +25°C unless otherwise specified

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

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
Frequency Stability (-30°C to +60°C, +25° Ref.)	0.00025%
Image Rejection	-70dB

* Availability subject to the laws and regulation of individual countries.

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 1999/5/EC and EN300 113-1, EN300 113-2

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



UK Sales Office

Middle East and Africa Headquarters:

Motorola Ltd
Jays Close, Viabes Industrial Estate
Basingstoke, Hampshire RG22 4PD
United Kingdom
Tel (01256) 488200
Fax (01256) 488080

Central Europe Headquarters

Eastern Europe, Turkey and

Central Asia Headquarters:

Motorola GmbH
Heinrich Hertz Strasse 1
65232 Taunusstein
Germany
Tel. +49 6128 700
Fax +49 6128 951084

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.



Motorola, Professional Radios,
As Dedicated As You Are and
X-Pand are trademarks of Motorola Inc.
© 1998 Motorola, Printed in the United Kingdom
<http://www.motorola.com>