



**MOTOROLA**

TWO-WAY RADIOS

## GP380: The Versatile Radio

The GP380 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 radio software encompasses Private Line™ and 5-tone selective signalling.*
- **Channel Scan**  
*Allows activity on different communications channels to be monitored and answered.*
- **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.*
- **Voice Operated Transmit (VOX)**  
*Hands free operation when used with Vox headset accessory.*
- **Emergency Signalling**  
*Sends a help signal to a pre-defined person or group of people. The help signal can contain a pre-recorded voice message enabling your whereabouts or status to be determined immediately by the receiving person.*
- **Lone Worker**  
*Added security and safety for individuals who work remotely from their team. The radio enters emergency mode if the user does not respond to the warning signal.*
- **Option Board Expandability**  
*You can expand the existing capabilities by adding one of the following option boards:*
  - Encryption for message security.
  - SmarTrunk II for low cost trunking.
  - Voice Storage option board provides voice recorder features allowing you to store and retrieve messages.
- **Whisper**  
*Allows a user to speak quietly into a radio and still be heard clearly.*
- **Call Forward**  
*Allows calls to be forwarded to another radio user if you are unable to answer your calls personally.*
- **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**  
*Simple menus and an alpha-numeric contact list make the full power of GP380 simple and intuitive to use.*
- **Status Calls**  
*Pre-defined text messages which allow the user to send meaningful messages without talking.*

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



As Dedicated As You Are

# Professional Radio

# GP380 Portable Two-Way Radio Specifications

General Specifications		
Channel Capacity	255	
Power Supply	Rechargeable battery 7.5v	
Dimensions: H x W x D (mm)	Height excluding knobs	
With standard high capacity NiMH battery	137 x 57.5 x 37.5	
With ultra high capacity NiMH battery	137 x 57.5 x 40.0	
With NiCD battery	137 x 57.5 x 40.0	
With Lilon battery	137 x 57.5 x 33.0	
Weight: (gm)		
With Standard high capacity NiMH battery	428	
With Ultra high capacity NiMH battery	508	
With NiCD battery	458	
With Lilon battery	358	
Average Battery Life @5/5/90 Cycle:	Low Power	High Power
With Standard high capacity NiMH battery	11 hours	8 hours
With Ultra high capacity NiMH battery	14 hours	11 hours
With NiCD battery	12 hours	9 hours
With Lilon battery	11 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	

Transmitter		
*Frequencies - Full Bandsplit	VHF: 136-174 MHz UHF: 403-470 MHz	LB1: 29.7-42 MHz LB2: 35-50 MHz
Channel Spacing	12.5/20/25 kHz	12.5/20/25 kHz
Frequency Stability (-25°C to +55°C, +25° Ref.)	±2.5 ppm	±10 ppm
Power	136-174: 1-5W 403-470: 1-4W	1-6W
Modulation Limiting	±2.5 @ 12.5 kHz ±4.0 @ 20 kHz ±5.0 @ 25 kHz	±2.5 @ 12.5 kHz ±4.0 @ 20 kHz ±5.0 @ 25 kHz
FM Hum & Noise	-40 dB typical	-40 dB typical
Conducted/Radiated Emission	-36 dBm <1 GHz -30 dBm >1 GHz	-36 dBm <1000 MHz -30 dBm <1000 MHz
Adjacent Channel Power	-60 dB @ 12.5 kHz -70 dB @ 20/25 kHz	-60 dB @ 12.5 kHz -70 dB @ 25 kHz
Audio Response (300-3000Hz)	+1 to -3 dB	+1 to -3 dB
Audio Distortion	3%	3%

Receiver		
*Frequencies - Full Bandsplit	VHF: 136-174 MHz UHF: 403-470 MHz	LB1: 29.7-42 MHz LB2: 35-50 MHz
Channel Spacing	12.5/20/25 kHz	12.5/20/25 kHz
Sensitivity (12 dB SINAD) EIA	.25 µV typical	.25 µV typical
Sensitivity (20 dB SINAD) ETS	.50 µV typical	.50 µV typical
Intermodulation EIA	70 dB	70 dB
Adjacent Channel Selectivity	60 dB @ 12.5 kHz 70 dB @ 20/25 kHz	60 dB @ 12.5 kHz 70 dB @ 25 kHz
Spurious Rejection	70 dB	70 dB
Rated Audio	0.5W	0.5W
Audio Distortion @ Rated Audio	3% typical	3% typical
Hum & Noise	-40 dB @ 12.5 kHz -50 dB @ 20/25 kHz	-45 dB @ 12.5 kHz -50 dB @ 20/25 kHz
Audio Response (300-3000 Hz)	+1 to -3 dB	+1 to -3 dB
Conducted Spurious Emission	-57 dBm <1 GHz -47 dBm >1 GHz ETS 300 086	-57 dBm <1 GHz -47 dBm >1 GHz FCC Part 15

Data for +25°C unless otherwise specified

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

\*Availability subject to individual country's law and regulations.

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.

Communication Spares (UK) Ltd.   
 London : 0800 068 7194   
 Andover : 0800 068 0048   
  
  
 Motorola Two-Way Radio Authorised Dealer

#### 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**

Motorola, Professional Radios,  
 As Dedicated As You Are and  
 X-Expand are trademarks of Motorola Inc.

© 1998 Motorola, Printed in the United Kingdom  
<http://www.mot.com>