



TWO-WAY RADIOS

GM380: The Sophisticated Radio

The GM380 is for professionals who need to communicate using the highest levels of radio sophistication. A sophisticated communication tool with a user friendly interface, the GM380 helps to improve the efficiency and productivity of your mobile workforce.



As Dedicated As You Are

Professional Radio

A wide array of features include:

- **Signalling**
The radio software encompasses Private Line™ and 5-tone selective signalling.
- **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.
- **Voice Storage**
Built-in Voice Storage allows you to store and retrieve messages.
- **User Information**
A 4 line 14-character alphanumeric display contains icons for programmed features, prompts for operational awareness and name decode for many incoming calls. Radio provides distinctive tones for different calls and functions.
- **Ease of Use**
Simple menus and a full alphanumeric keypad make the full power of GM380 simple and intuitive to use.
- **Status Calls**
Pre-defined text messages which allow the user to send meaningful messages without talking.
- **DTMF**
Provided that your radio has access to a phone system, you can make phone calls from your radio. This feature may also be programmed to put your radio into permanent DTMF mode at the touch of a button.
- **Public Address Mode**
This feature allows you to use your radio audio as a public address system simply by adding an external speaker and switch fitted and programmed by your dealer.
- **Data Capable**
A modem can be fitted inside a special expansion head, or external to the radio.

Additional features include:

- Channel Scan
- Option Board Expandability*
- Call Forward
- X-Pand™ Voice Compression and Low Level Expansion
- Voice Operated Transmit (VOX)
- External Alarm
- Memory Channel
- Car Radio Mute

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

GM380 Mobile Two-Way Radio Specifications

| General | | |
|---|--|-------------|
| Specification | VHF | UHF |
| Frequency Range: | 136-174 MHz | 403-470 MHz |
| Frequency Stability (-30°C to +60°C, 25°C Ref.) | ±2.5 PPM | ±2 PPM |
| Channel Capacity: | 255 | |
| Channel Spacing: | 12.5/20/25 kHz | |
| Power Output: | 1-25W | 1-25W |
| Power Supply: | 13.2Vdc (10.8 - 15.6 Vdc) negative vehicle ground | |
| Dimensions (L x W x H) | 188mm x 185mm x 72mm (add 7mm for Volume Knob) (7.4" x 7.28" x 2.83" - add 0.27" for Volume Knob) | |
| Weight: | 1400 g (3.15 lbs) | |
| Low power (1-25W) | 2064 g (4.3lbs) | |
| High power (40-60W) | | |
| Operating Temperature | -30 to 60°C | |
| Sealing | Passes rain testing to IP54 | |
| Shock and Vibration | Meets MIL-STD 810-C,D&E and TIA/EIA 603 | |
| Dust | Meets MIL-STD 810-C,D&E and TIA/EIA 603 | |
| Humidity | Meets MIL-STD 810-C,D&E and TIA/EIA 603 | |

| Mobile 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 | 2 | 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 | 2 | 506.2 | 2 | 506.3 | 2 |
| Humidity | 507.1 | 2 | 507.2 | 2,3 | 507.3 | 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 | 516.4 | 1 |

| Transmitter | | |
|---|--|-----|
| Specification | VHF | UHF |
| Modulation Limiting: | ±2.5 kHz @ 12.5 kHz ±4.0 kHz @ 20 kHz ±5.0 kHz @ 20/25 kHz | |
| FM Hum and Noise: | -40 dB @ 12.5 kHz -45 dB @ 20/25 kHz | |
| Conducted/Radiated Emissions: | -36 dBm < 1 GHz -30 dBm > 1 GHz | |
| Adjacent Channel Power | -60 dB @ 12.5, -70 dB @ 20/25 kHz | |
| Audio Response: (300 to 3000Hz) | +1, -3dB | |
| Audio Distortion: @ 1000 Hz, 60% Rated Maximum Deviation: | 3% Typical | |

| Receiver | | |
|--|---|--|
| Specification | VHF | UHF |
| Sensitivity (12dB SINAD): (ETS) | 0.30µV (0.22 µV Typical) | |
| Intermodulation: (ETS) | >65 dB; >70 dB in Base Mode | |
| Adjacent Channel Selectivity: (ETS) | 80dB @ 25 kHz 75dB @ 20 kHz 65dB @ 12.5 kHz | 75 dB @ 25 kHz 70 dB @ 20 kHz 65 dB @ 12.5 kHz |
| Spurious Rejection: (ETS) | 80 dB @ 20/25 kHz 75 dB @ 12.5 kHz | 75 dB @ 20/25 kHz 70 dB @ 12.5 kHz |
| Rated Audio: (ETS) | 3W Internal 7.5W & 13W External | |
| Audio Distortion @ Rated Audio: | 3% Typical | |
| Hum and Noise: | -40 dB @ 12.5 kHz -45 dB @ 20/25 kHz | |
| Audio Response: (300 to 3000Hz) | +1, -3dB | |
| Conducted Spurious Emission per FCC Part 15: | -57 dBm < 1 GHz -47 dBm > 1 GHz | |

*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.



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



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