



TWO-WAY RADIOS

GM660: The Versatile Radio

The GM660 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, making flexibility the hallmark. The versatility of the GM660 helps you to keep productivity at its highest, no matter how fast your business grows.



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 alphanumeric display contains icons for programmed features and operational awareness. This mobile radio provides separate distinctive tones plus name decode for many incoming calls. Alert and feedback tones can be setup in a variety of volume levels and sounds.
- **Ease of Use**
One touch dialling, simple menus and an alphanumeric phonebook/contact list make the full power of the GM660 simple and intuitive to use.
- **Data Messaging**
Includes a built-in pager with the capability of receiving data messages. You can send data messages from the contact list or manually entered alphanumeric text when using the optional enhanced keypad microphone.
- **External Alarm**
Activates the vehicle horn and/or lights on receipt of an incoming call, so you won't miss a call even when away from your vehicle.
- **Car Radio Mute**
Automatically mutes your in-car audio entertainment system to allow calls to be heard and sent without interference.
- **DTMF**
Provided that your radio has access to a phone system and you are utilising an enhanced keypad microphone, you can make phone calls from your radio. Alternatively you can use DTMF tones in a number of ways, for example to steer an answering machine.
- **Voice Storage**
 - *Voice Recorder: a paperless notepad allowing you to store and retrieve messages.*
 - *Voice Message: a voice prompt for callers to leave a message to be stored in the radio.*

Additional features include:

- Contact List
- Dynamic Regrouping
- Option Board Expandability*
- Wideband and Programmable Channel Spacing

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

As Dedicated As You Are

Professional Radio

GM660 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 Spacing: | 12.5/20/25 kHz | |
| Power Output: | 1-25W | |
| Power Supply: | 13.2Vdc (10.8 - 15.6 Vdc) negative vehicle ground | |
| Dimensions (L x W x H) | 186mm x 179mm x 59mm (add 9mm for Volume Knob) (7.32" x 7.05" x 2.34" - add 0.35" for Volume Knob) | |
| Weight: | 1400 g (3.15 lbs) | |
| 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 @ 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 @ 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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