



GM360

Efficiency Through Communication



KEY FEATURES

Signalling

- Private Line™
- 5-tone selective signalling

Easy to use and set-up

- Intuitive menu-driven user interface and large controls enable easy access to many features
- 14 character alpha-numeric display
- Programmable buttons
- PC programmable*

Adaptable and versatile

- Option board capability allows additional features and customer-specific functions*
- Easily programmed in the field to support additional features
- Data capability allows interface to third party terminals to enhance communications

Protecting users

- Emergency signalling
- Lone worker
- External alarm

Quality

- MIL Spec 810 compliant - including 810G
- Meets IP54 environmental standards
- Passed Motorola Accelerated Life Test
- X-Pand™ voice compression technology

Efficiency

- Channel scanning
- Call forwarding
- Status calls
- Car radio mute
- Memory channel
- Voice operated transmit (VOX)

Included as standard

- Battery power cable
- Enhanced compact microphone
- 3 point mounting tray

Accessory options

- A wide range of accessory options are available to customise your radio
- Microphones and desktop solutions
 - In-vehicle accessories
 - Mounting kits

* For further information, please contact your local dealer or distributor

The GM360, one of the market-leading radios in Motorola's Professional Series, offers communications for the mobile workforce in larger organisations. The radio offers broad functionality; an easy-to-use menu with navigation keys for productivity and security features to protect users working alone or remotely.

Option boards and a wide range of accessories and portable radios are also available within the Professional Series. It is easy to build a tailored communications solution to meet your needs.

SPECIFICATIONS

GM360 Efficiency Through Communications

GENERAL

Specification	VHF	UHF	LB1, LB2, LB3
Frequency Range	136-174 MHz	403-470 MHz	29.7-36.0 MHz 36.0-42.0 MHz 42.0-50.0 MHz
Frequency Stability (-30°C to +60°C, 25°C Ref.)	±2.5 PPM	±2.5 PPM	±5 PPM
Channel Capacity		255	
Channel Spacing		12.5/20/25 kHz	
Power Output	1-25W	1-25W	25-60W
Power Supply	13.2Vdc (10.8 - 15.6 Vdc) negative vehicle ground		
Dimensions (L x W x H)	1-25W: 186 x 180 x 59mm (add 9mm for Volume knob) 45-60W: 198 x 180 x 59mm (add 9mm for Volume knob)		
Weight	Low power (1-25W): 1450g High power (45-60W) 2064g		
Operating Temperature	-30 to 60°C		
Operation Mode	Intermittent Intermittent Intermittent		
Sealing	Passes rain testing to IP54		
Shock and Vibration	Meets MIL-STD 810 and TIA/EIA 603		
Dust	Meets MIL-STD 810 and TIA/EIA 603		
Humidity	Meets MIL-STD 810 and TIA/EIA 603		

TRANSMITTER

Specification	VHF	UHF	LB1, LB2, LB3
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 kHz -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	LB1, LB2, LB3
Sensitivity (12dB SINAD) (EN)		0.30µV (0.25 µV Typical)	
Intermodulation (EN)	>65 dB		>65 dB
Adjacent Channel Selectivity (EN)	80 dB @ 25 kHz 75 dB @ 20 kHz 65 dB @ 12.5 kHz	75 dB @ 25 kHz 70 dB @ 20 kHz 65 dB @ 12.5 kHz	80 dB @ 25 kHz 75 dB @ 20 kHz 65 dB @ 12.5 kHz
Spurious Rejection (EN)	80 dB @ 20/25 kHz 75 dB @ 12.5 kHz	75 dB @ 20/25 kHz 70 dB @ 12.5 kHz	80 dB @ 20/25 kHz 75 dB @ 12.5 kHz
Rated Audio (EN)		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		+1, -3dB (300 to 3000Hz)	
Conducted Spurious		-57 dBm < 1 GHz	
Emission per FCC Part 15:		-47 dBm > 1 GHz	

MILITARY STANDARDS 810

	MIL-STD 810C		MIL-STD 810D		MIL-STD 810E		MIL-STD 810F		MIL-STD 810G	
	Method	Proc./Cat.	Method	Proc./Cat.	Method	Proc./Cat.	Method	Proc./Cat.	Method	Proc./Cat.
Low Pressure	500.1	I	500.2	II	500.3	II	500.4	II	500.5	II
High Temperature	501.1	I, II	501.2	I/A1, II/A1	501.3	I/A1, II/A1	501.4	I/Hot, II/Hot	501.5	I/Hot A1, II/Hot (A1)
Low Temperature	502.1	I	502.2	I/C3, II/C1	502.3	I/C3, II/C1	502.4	I/C3, II/C1	502.5	I/C3, II/C1
Temperature Shock	503.1	-	503.2	I/A1C3	503.3	I/C1A3	503.4	I	503.5	I/C
Solar Radiation	505.1	II	505.2	I	505.3	I	505.4	I	505.5	I
Rain	506.1	I, II	506.2	I, II	506.3	I, II	506.4	I, III	506.5	I, III
Humidity	507.1	II	507.2	II	507.3	II	507.4	-	507.5	-
Salt Fog	509.1	-	509.2	-	509.3	-	509.4	-	509.5	-
Blowing Dust	510.1	I	510.2	I	510.3	I	510.4	I	510.5	I
Blowing Sand	-	-	510.2	II	510.3	II	510.4	II	510.5	II
Vibration	514.2	VIII/F, Curve-W	514.3	I/10, II/3	514.4	I/10, II/3	514.5	I/24	514.6	I/24
Shock	516.2	I, V	516.3	VI	516.4	I, VI	516.5	I, VI	516.6	I, VI

ENVIRONMENTAL SPECIFICATIONS

Operating Temperature	-30°C/+60°C (specify operating temperature for the product)
Storage Temperature	-40°C/+85°C (specify storage temperature for the product)
Humidity	Per MIL-STD
ESD	IEC 801-2KV
Water and Dust Intrusion	IP54, MIL-STD

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

Data is specified for +25°C unless otherwise stated

*Availability subject to individual country's law and regulations. Specifications are subject to change without notice and are issued for guidance only. All specifications listed are typical. Radios meet applicable regulatory requirements. Conforms to R&TTE directive 1999/5/EC



Shingene Motorola
Accelerated Life Testing
simulating five years of hard
use in real life. (EIA RS-3169
on Shock, Vibration, Dust,
Humidity, IP54 for Sealing)



Compliance with ISO 9001
Standard on international
quality system assurance
on design, development,
production, installation and
servicing of a product



Stamp of Approval from
the U.S. Military for use
in rough environments



To ensure compliance with RF
energy exposure standards
and regulations, use only
Motorola-approved batteries
and accessories. Use of
non-Motorola-approved
batteries and accessories may
result in RF energy exposure
standards being exceeded

ORIGINAL
accessories



American International Radio, Inc.

3601 E. Algonquin Rd.#800 Rolling Meadows,IL 60008
www.airradio.com +1 847 818 9999