



# MOTOROLA GM3689 5 TONE

**POWERFUL AND AFFORDABLE  
MOBILE RADIO COMMUNICATION**

*In today's fast-moving workplace, efficient communications solutions are vital to your competitiveness. A misunderstood message may have big consequences. That is why 75 years of pushing the frontiers in radio technology makes Motorola the brand of choice when you need reliable, clear communication. The GM3689 two-way radios comfortably meet the level of reliability and clarity needed for industries like taxis and courier services. The build quality, characteristic to all Motorola mobiles, means they are apt for mining and local councils activities too. Advanced features such as PTT-ID, Emergency and Lone Worker capabilities are possible with these Select V mobiles. Furthermore, your investment is protected, as the GM3689 are compatible with the existing range of accessories.*



### ***GM3689: CUSTOMISABLE AND COST-EFFECTIVE PRODUCTIVITY TOOL***

The GM3689 is a functional communications solution and also adaptable to growing business needs. Each unit can be customised to suit individual users' needs, even within the same fleet. The wide range of capabilities makes this mobile great value for money.

#### ***100 CHANNELS***

Able to accommodate your growing business needs and communication channels.

#### ***3 PROGRAMMABLE BUTTONS***

Allows access to frequently-used functions, such as Scan, Repeater Talkaround, Transmitting Power Level, Emergency and others.

#### ***8-CHARACTER ALPHANUMERIC DISPLAY***

Displays icons for quick identification of radio status, and identifies incoming callers.

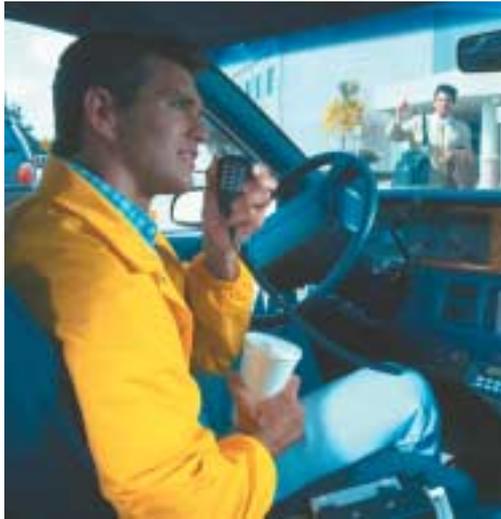
#### ***SIGNALLING STANDARD***

The GM3689 supports the following Select V signalling standards, and programming of up to two 'user-defined' signalling standards is possible.

- ZVEI
- Modified ZVEI
- 70 ms CCIR
- EEA
- French Modified ZVEI
- 20ms CCIR
- 100 ms CCIR

#### ***RUGGED CONSTRUCTION***

The mobiles are built to meet or exceed the stringent Motorola ALT, MIL-STD 810C/D/E/F and IP54 international standards, which make them suitable for use in rough environments.



## ENHANCE YOUR RADIO'S CAPABILITIES

A comprehensive range of accessories is also available so that the radios can be customized to suit your needs. Adding the proper handset, speakers, microphone & mounting accessories can enhance your productivity. Motorola accessories are built with the highest quality standards and are specially engineered to assure maximum performance of your radio.

### OTHER FEATURES

- Selective Call
- Car Audio Mute
- Scan
- Nuisance Channel Delete
- Call Forward
- Repeater/Talkaround
- External Alarm
- High/Low Power
- Local/Distant
- Public Address Mode
- Programmable Channel Spacing



HMN3000  
Desktop  
Microphone



RLN4836  
Emergency  
Footswitch



HSN8145 7.5 W External speaker



GMMN4065 Visor Mounted  
Microphone



HMN1035 Heavy-duty  
Palm Microphone



RMN5029 Enhanced  
Keypad Microphone

### AUDIO ENHANCEMENT

The mobiles offer voice compression mode and powerful 4W front-firing speakers for maximal audio clarity. Optional 13W external speakers are available for high-noise environments like the construction and manufacturing industries.

### USER FRIENDLY

- Large ON/OFF Knob and Channel Buttons enable easy and quick operation.
- Programmable Buttons provide convenient access to frequently-used functions.
- LED Status Indicators and Alert Tones allow clear indication of radio's operating status and timely notification of incoming calls.

### 16-PIN EXTERNAL ACCESSORY PORT

Allows easy expansion of radio's capability, without messy dismantling and rewiring. Devices such as GPS module, data modem and a host of others can be added on as your business needs grow.

### OPTION BOARD EXPANDABILITY

Additional capabilities such as data transfer and voice storage can be added easily.

### PTT - ID

Identifies the radio during transmission. This saves the need of verbal identification, making communication more efficient.

### CONTACT LIST

Up to 255 names, numbers and caller IDs can be called up quickly and conveniently.

### LONE WORKER

Provides added safety to users who work alone. The radio enters into Emergency mode if the user fails to respond to a warning signal after a stipulated time.

### STUN/UNSTUN

Prevents abuse of the radio network. The central dispatcher can disable unauthorised or nuisance users over the air.

### EMERGENCY

Activates the emergency mode via the footswitch, allowing the driver to notify the central operator quickly and discreetly in an emergency situation.

### MOBILE VOTING

Mobile voting allows the GM3689 to work smoothly on conventional multi-casts networks. Mobile voting permits the radio to automatically select (vote) the strongest signal ensuring the best audio quality is delivered to the user.

### VOICE OPERATED TRANSMISSION (VOX)

Radio may be activated by voice control when connected to a Visor microphone, thus allowing users to concentrate on road safety.

### BUILT TO MEET MILITARY SPECIFICATIONS

The GM3689 is a commercial quality radio which has been tested to MIL-STD (C,D, E and F) Military Specification Standards including temperature shock, solar radiation, salt fog, vibration and shock. These tests were conducted subject to specific military procedures.

GENERAL	MB
Frequency	66-88MHz
Channel Capacity	100 channels
Power Output	1-25W
Power Supply	13.8 Vdc (11 Vdc - 16.6 Vdc) negative vehicle ground
Channel Spacing	12.5/20/25KHz
Frequency Stability (-300C, + 600C, +250C Ref)	+/-2.5ppm
Dimensions (H x W x L)	44mm x 169mm x 118mm
Weight	1.01 Kg
Operating Temperature	-30 to + 60°C
Sealing	Passes rain and dust testing to IP54
Shock and Vibration	Meets MIL-STD 810-C, D, E & F and TIA/EIA 603
RECEIVER	MB
Sensitivity (12db Sinad)	0.35uV (12.5KHz) 0.3uV (25KHz)
Intermodulation	60dB (12.5KHz) 70dB (25KHz)
Adjacent Channel Selectivity	60dB (12.5KHz) 70dB (25KHz)
Spurious Rejection	70dB
Rated Audio (extended audio with 4 ohm speaker)	4W internal 13W external
Audio Distortion @ Rated Audio	3% typical
Hum and Noise	-40dB (12.5KHz) -45dB (25KHz)
Audio Response (300 to 3000Hz)	+1, -3dB
Conducted Spurious Emission	-57dBm < 1GHz -47dBm > 1GHz
TRANSMITTER	MB
Modulation Limiting	+/- 2.5KHz (12.5KHz) +/- 4KHz (20KHz) +/- 5KHz (25KHz)
FM Hum & Noise	-40dB (12.5KHz) -45dB (25KHz)
Conducted / Radiated Power	-36dBm < 1GHz -30dBm > 1GHz
Adjacent Channel Power	-60dB (12.5KHz) -70dB (25KHz)
Audio Response (300 to 3000Hz)	+1, -3dB
Audio Distortion@1000Hz, 60% Rated Max. Deviation	3% typical

Mobile Military Standards 810 C		
Applicable MIL - STD	Methods	Procedures
Temperature Shock	503.1	I
Solar Radiation	505.1	I
Salt fog	509.1	I (48 Hours)
Shock	516.2	I,III
Mobile Military Standards 810 D		
Applicable MIL - STD	Methods	Procedures
Temperature Shock	503.2	I
Solar Radiation	505.2	I
Salt fog	509.2	I (48 Hours)
Vibration	514.3	Category 1
Shock	516.3	I, V
Mobile Military Standards 810 E		
Applicable MIL - STD	Methods	Procedures
Temperature Shock	503.3	I
Solar Radiation	505.3	I
Salt fog	509.3	I (48 Hours)
Vibration	514.4	Category 1
Shock	516.4	I,V
Mobile Military Standards 810 F		
Applicable MIL - STD	Methods	Procedures
Temperature Shock	503.3	I
Solar Radiation	505.4	I
Salt fog	509.4	I (48 Hours)
Vibration	514.5	Procedure I
Shock	516.5	I, V

Availability subject to country's law and regulation.  
Radios meet applicable regulatory requirements.  
All specifications shown are subject to change without notice.  
Specifications are not representative of all radios and may vary in different radios.



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For more information, please contact:

#### One-Year Warranty

Each Motorola radio is backed by a one-year warranty on radio parts and labour.



#### Accelerated Life Testing

Motorola's Accelerated Life Testing simulates five years of hard use in real life, EIA RS-316B in Shock, Vibration, Dust, Humidity, IP54 for Sealing.



#### MIL-STD 810C, D, E and F

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



#### ISO 9001 Standard

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