

GM3188 Conventional Mobile

GM3188: Affordable and Efficient Communications Solution

Ease of use and cost effective communication characterise the Motorola GM3188 Conventional Mobile radio. Ideal for taxi, courier, construction and manufacturing industries. The Motorola GM3188 conventional mobile allows you to enjoy instant and reliable communication while keeping your mobile team working efficiently. With Motorola's voice-compression technology, the GM3188 offers unsurpassed audio quality, making it extremely suitable for use in high-noise environments. Expect consistently high performance from the GM3188 - nothing comes close to it in terms of reliability and value.



Programmable Features

Scan
Allowing closer monitoring of activities on different communication channels.

Nuisance Channel Delete
Enhance operation efficiency by temporarily removing channels that are of no interest to the user.

Repeater Talkaround
Freedom to communicate from point-to-point or a wide-area coverage via a repeater.

Monitor / Permanent Monitor
Allows continuous channel monitoring.

Hi / Lo Power
The transmit power can be adjusted to accommodate the user environment.

Signalling Capabilities

MDC1200 Signalling

PTT ID Encode - Identifies the radio during transmission, so callers do not have to verbally identify themselves.

Selective Radio Inhibit - If missing or stolen, the dispatcher or system can remotely disable the radio for greater security.

Emergency - Provides instant help by activating the foot switch.

Radio Check - Allows radio to be checked if it is working or operating within range.

Quick Call II Signalling

Selective Call - The radios can be addressed individually.

Call Alert - An alert tone to notify individual users that they are being paged.

DTMF Signalling

PTT-ID Encode

Additional Features

Time Out Timer

Busy Channel Lockout

Public Address

DTMF encode for Telephone interconnect

Tight/Normal Squelch

Voice Operated Transmission (VOX) with Visor Mic



- (1) **Rugged Construction**
Diecast housing with polycarbonated outer casing. Built to meet or exceed the stringent Motorola ALT and MIL-STD 810C/D/E.
- (2) **Large ON / OFF Knob and Channel Button**
Easy operation, even with gloved hands.
- (3) **LED Status Indicator**
Clear indication of radio's operating status at a glance.
- (4) **Accessories**
Comprehensive range of accessories to suit your in-vehicle and desktop solution.

- (5) **Slim and Compact Form Factor**
Compact design enables it to be mounted easily even in cramped vehicles.
- (6) **Powerful Audio**
4W front facing speaker is Motorola's X-Pand™ audio technology gives crisp, clear audio, even in noisy environments.
- (7) **2 Programmable Buttons**
Convenient access to the most frequently used functions.

- (8) **External Accessory Port With Programmable I/O**
Allows easy expansion of radio's capability. No messy dismantling and rewiring needed.



The GM3188 can be used as a Radio Frequency (RF) pipe for integrated solutions such as Automatic Vehicle Locator Systems (AVL) and Telemetry. A host of devices can be connected via the mobile's 16-pin external port, to offer a multitude of solutions.

• **Automatic Vehicle Locator Systems (AVL)**

Allows remote tracking of your vehicles' location using the Global Positioning System (GPS) and integrated software. This ensures a more efficient utilization of the fleet, dynamic planning of delivery routes and estimation of arrival time, thereby resulting in better customer service and profitability. The AVL system can also be used to track vehicles carrying precious cargo and company personnel in high-risk environments.

• **Telemetry**

Enables remote real-time monitoring of environmental conditions or equipment parameters. Together with integrated hardware and software solutions, the mobile can be used for remote monitoring of water levels in inaccessible areas, or to track key operational / process parameters to ensure the safety of plant workers.

GM3188 Specifications*

General Specifications

	VHF	UHF	
Frequency	136-162MHz 146-174MHz	403-440MHz 438-470MHz 465-495MHz	490-527MHz
Channel Capacity	8		
Power Output	1-25W 25-45W	1-25W 25-40W	25W 25-40W
Power Supply	13.8 Vdc (11 Vdc - 16.8 Vdc) negative vehicle ground		
Channel Spacing	12.5/20/25KHz		
Frequency Stability (-30°C, +60°C, +25°C Ref)	±2.5ppm		
Dimensions (H * W * 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 and TIA/EIA 603		

Receiver

	VHF	UHF
Sensitivity (12db Sinaad)		0.35uV (12.5KHz) 0.3uV (25KHz)
Intermodulation	65dB (12.5KHz) 75dB (25KHz)	60dB (12.5KHz) 70dB (25KHz)
Adjacent Channel Selectivity	65dB (12.5KHz) 75dB (25KHz)	60dB (12.5KHz) 70dB (25KHz)
Spurious Rejection	75dB	70dB
Rated Audio (extended audio with 4 ohm speaker)		4W internal 13W external
Audio Distortion @ Rated Audio		3% typical
Hum and Noise	-40 dB (12.5KHz) -45 dB (25KHz)	-35 dB (12.5KHz) -40 dB (25KHz)
Audio Response (300 to 3000Hz)		+1, -3dB
Conducted Spurious Emission		-57 dBm < 1GHz -47dBm > 1GHz

Transmitter

	VHF	UHF
Modulation Limiting		+/-2.5KHz (12.5KHz) +/-4KHz (20KHz) +/-5KHz (25KHz)
FM Hum & Noise	-40 dB (12.5KHz) -45 dB (25KHz)	-35 dB (12.5KHz) -40 dB (25KHz)
Conducted / Radiated Power		-36 dBm < 1GHz -30 dBm > 1GHz
Adjacent Channel Power		-60 dB (12.5KHz) -70 dB (25KHz)
Audio Response (300 to 3000Hz)		+1, -3dB
Audio Distortion @ 1000Hz, 60% Rated Max. Deviation		3% typical

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

Accessories for GM3188

Microphone

- HMN3596 Compact Palm Microphone
- HMN1035 Heavy Duty Palm Microphone
- RMN5029 Enhanced Keypad Microphone
- AAREX4617 Telephone Style Handset



Hands-free Solution

- GMMN4065 Visor Mounted Microphone (requires use of the remote PTT configuration below)
- RLN4857 Pushbutton with Remote PTT
- RLN4856 Remote Footswitch PTT



Desktop Solution

- HMN3000 Desktop Microphone
- HSN8145 7.5 W External Speaker
- RSN4001 13 W External Speaker



Stringent Motorola Accelerated Life Testing simulating five years of hard use in real life. EIA R5-3168 in Shock, Vibration, Dust, Humidity, IP54 for Sealing.



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



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



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