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.

Mobile Military Standards 810C, D, E & F

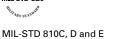
	810C		810D		810E		810F	
Applicable MIL - STD	Methods	Procedures	Methods	Procedures	Methods	Procedures	Methods	Procedures
Temperature Shock	503.1	I	503.2	I	503.3	I	503.3	I
Solar Radiation	505.1	I	505.2	I	505.3	I	505.4	I
Salt fog	509.1	l (48 Hours)	509.2	l (48 Hours)	509.3	l (48 Hours)	509.4	l (48 Hours)
Vibration	-	-	514.3	I, Cat 1	514.4	1, Cat 1	514.5	1, Cat 1
Shock	516.2	1,111	516.3	I, V	516.4	I,V	516.5	I, V
Rain	506.1		506.2		506.3		506.4	
Dust	510.1	I	510.2	I	510.3	I	510.4	I





Accelerated Life Testing

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



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.



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AC3-01-011Rev.5



GM3188

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 accomodate the user environment.

Signalling Capabilities

MDC1200 Signalling

• PTT ID Encode

Communications Solution

Efficient (

and

ordable

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



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 highnoise environments. Expect consistently high performance from the GM3188 - nothing comes close to it in terms of reliability and value.

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Accessories for GM3188

MICROPHONE

HMN3596 Compact Palm Microphone

HMN1035

Heavy Duty Palm Microphone

AAREX4617 Telephone Style Handset

RMN5029

Enhanced Keypac

HANDS-FREE SOLUTION



GMMN4065

Visor Mounted Microphone



RLN4857

Pushbutton with Remote PT1

RLN4856

Remote Footswitch PTT

DESKTOP SOLUTION



HMN3000

Desktop Microphone

HSN8145

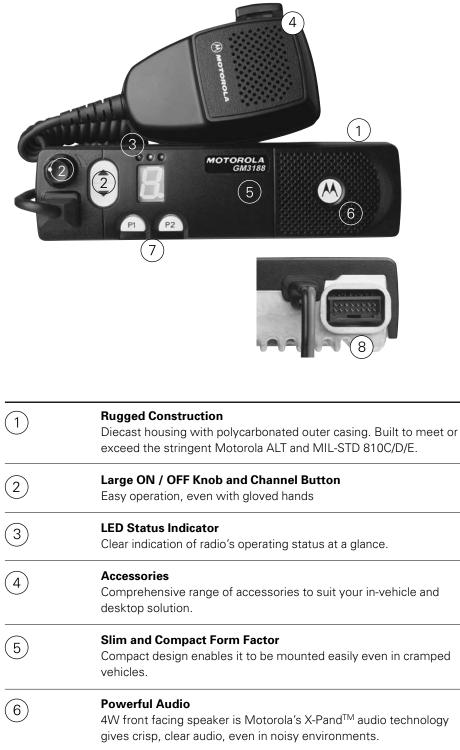
7.5 W External Speaker



7

(8)





2 Programmable Buttons

Convenient access to the most frequently used functions.

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

13 W External Speaker

GM3188 Specifications*

General Specifications

	VHF		UHF	
Frequency		403-440MHz		
	136-162MHz	438-470MHz		
	146-174MHz	468-495MHz	490-527MHz	
Channel Capacity	8			
Power Output	1-25W	1-25W	25W	
	25-45W	25-40W	25-40W	
Power Supply	13.8 Vdc (11 Vdc - 16.6 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 Sinad)	0.35uV (12.5KHz)			
	0.3uV (25KHz)			
Intermodulation	65dB (12.5KHz)	60dB (12.5KHz)		
	75dB (25KHz)	70dB (25KHz)		
Adjacent Channel Selectivity	65dB (12.5KHz)	60dB (12.5KHz)		
	75dB (25KHz)	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)	-35 dB (12.5KHz)		
	-45 dB (25KHz)	-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)	-35 dB (12.5KHz)		
	-45 dB (25KHz)	-40 dB (25KHz)		
Conducted / Radiated Power				
1-25W		-36 dBm < 1GHz		
		-30 dBm > 1GHz		
25-40/45VV	-26 dBm			
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.