



# Everybody's Talking

Motorola's Smallest  
Professional Radio

Compact, Versatile and Easy to Use



**GP328 Plus & GP 338 Plus Professional Portable Radios**

# Everybody's Talking

## *Compact, Light and Rugged*

*Instant communication is important to many operations, as is the ability to be mobile and move freely without being weighed down by your communication tools.*

*Motorola's newest professional two-way radio packs a range of cutting edge innovations into one compact and lightweight radio designed to continue the Motorola heritage of offering the very best that portable radios can offer.*

*Introducing Motorola GP328 Plus non-keypad and GP338 Plus keypad two-ways radios - the smallest in Motorola's Professional Series, that are compact and light, fitting easily into the palm of your hand. But don't let the size fool you. They are ruggedly packed with Motorola's reliable technology and features that do not compromise on the radio's performance.*



### Users

#### Security:

From transporting money or overseeing major events to providing professional protection, the rugged palm-sized GP328 Plus & GP338 Plus are discreet and provide clear audio reception in both normal and high noise environments.

#### Management:

Maintain a professional image and gain the speed and efficiency of radio communication with the compact and light GP328 Plus and GP338 Plus radios: you are assured of clear, instant communication at the touch of a button.

#### Hospitality:

From conducting floor-to-floor security checks to addressing urgent conference room requests or delivering personal items, the compact GP328 Plus and GP338 Plus radios allow you to serve your guests faster and with increased mobility.



GP328 Plus

GP338 Plus

**One-Year Warranty**  
Each Motorola radio is backed by a 1 year warranty on radio parts and labour.



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



**MIL-STD 810C, D and E**  
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. GP328 Plus

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## GP328 Plus & GP338 Plus Common Key Features and Benefits

### Advanced Audio Technology

Motorola's special voice compression and low level expansion technology enable crisper, clearer and stronger audio quality, allowing you to keep communicating even in a noisy environment.

### Emergency Alarm/Siren

Meeting the need for urgent communication in critical situations, the easy-to-use, one touch emergency button emits a piercing alarm providing users with instant help alert.

### Switchable RF Power level

By just pressing one button, users can switch to a low power when communicating within limited range coverage or switch to a high power level when further distance is required. High transmit power optimises range coverage while a low transmit power conserves battery consumption.

### Repeater/Talkaround Enable/Disable

Users have the freedom to communicate through a repeater for wide area coverage, or bypass a repeater and talk directly to another radio if the coverage is within the range or when the repeater fails.

### Tight/Normal Squelch

Users have the flexibility to protect their communication by selecting to a tight squelch to filter interference of unwanted weak signal; or switch to normal squelch to increase coverage.

## GP328 Plus Features:

### 16 channels

Provides users maximum of 16 channels to organise different work groups to meet their different communication needs.

### LED Battery Gauge

The tri-colour LED battery gauge at the top of the radio alerts the users to recharge the battery should the battery level run low.

### Tone Tagging

Allows 8 different ringing tones to be assigned to 8 specific users/talkgroups providing audio caller identification to these 8 groups.

## GP338 Plus Features:

### 14-Character Alpha Numeric Dot Matrix display

The 14 character Alpha Numeric display allows immediate communication of vital information such as PTT ID, radio strength indicator and signal strength indicator. In addition, the user-friendly icons make the information easy to read and understand. The keypad and display illuminations also provide the visibility to operate your radio in the dark.

### Received Signal Strength Indicator

An easy to read on screen display indicator notifies users of signal strength in their vicinity.

### Name & Tone Tagging

The capability of assigning 8 different ringing tones and visual caller IDs to 8 specific users/talkgroups enhances audio and visual caller identification for these 8 groups.

### Battery Strength Indicator

Easy to read on-screen LCD display indicator alerts users on low battery strength.

### 128 Channels

Provides up to a maximum of 128 channels providing greater flexibility in organising different work groups

### Menu Keys

The easy to navigate menu keys allow users to select relevant functionalities.

## Enhanced Signalling Features for GP338 Plus

The GP338 Plus Keypad supports the MDC1200 Signalling Protocol.

### PTT-ID

Every time the PTT button is pressed, it enables the transmission of the caller ID.

### Status/Messages

This feature enables you to replace frequently used voice calls with status messages, saving you valuable communication time.

### Call Alert

If your call to a radio has no response, the radio will emit an alert tone until the other party takes action.

### Voice Selective Call

The radio users receive a unique individual or group voice message with an alert to indicate that it is a selective call.

### Priority Scanning

Allows activity on different channels to be monitored. Any incoming call will be automatically switched to another available channel so that the call can be received.



## Enhance Your Radios' Capabilities.

A comprehensive range of accessories is available so that the radios can be customised to suit your needs. Adding the proper headsets, microphones, batteries, charger or carry cases can enhance your operational productivity. Motorola's accessories are built with the highest quality standards and are specially engineered to assure maximum performance of your radio, no matter what profession you're in.



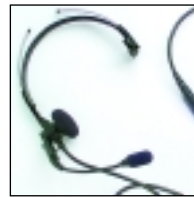
JMKN4123  
Programming Cable



JMMN4062  
Earpiece with Mic/PTT



JMMN4064  
Ear mic VOX/PTT  
Interface Module



JMMN4066  
Light Weight Headset  
with Boom Mic



JMMN4067  
Remote Speaker Mic



JMNN4023/4024  
Slim & Hicap Lilon  
Batteries



JMZN4020  
Radio Wrist Strap

Not pictured:  
Single Rapid Charger HTN3006  
Multi-Unit Rapid Charger TNTN4031A

Not all accessories are available in all countries.

### GP328 PLUS & GP338 PLUS SPECIFICATIONS

GENERAL SPECIFICATION	VHF, UHF				
*Frequency (MHz)	136 - 174 / 330 - 400 / 403 - 470 / 450 - 527				
Channel Capacity	GP328 Plus is 16 Channels		GP338 Plus is 128 Channels		
Power Supply	Provided through rechargeable battery - 7.5V				
Dimensions (Radio footprint height excluding knobs)	H	x	W	x	D
With Lilon (Slim) Battery:	101.5 mm	x	55.5 mm	x	30.5 mm
With Lilon (Hicap) Battery:	101.5 mm	x	55.5 mm	x	35.5 mm
Weight	GP328 Plus		GP338 Plus		
With Lilon (Slim) Battery:	250 gm		250 gm		
With Lilon (Hicap) Battery:	270 gm		270 gm		
Average Battery Life @ 5/5/90 Cycle	Low Power		High Power		
With Lilon (Slim) Battery:	10 hours		8 hours		
With Lilon (Hicap) Battery:	14 hours		11 hours		
Sealing	Withstands rain testing per MIL STD 810 C / D / E and IP54				
Shock and Vibration	Protection provided via impact resistant housing exceeding MIL STD 810 C / D / E and TIA/EIA603				
Dust and Humidity	Protection provided via environment resistant housing exceeding MIL STD 810-C/D/E and TIA/EIA 603				

TRANSMITTER SPECIFICATION	VHF / UHF	
*Frequency (MHz)	136-174 / 330-400 / 403-470 / 450-527	
Frequency Separation	Full bandsplit	
Channel Spacing	12.5 / 20 / 25kHz	
Freq Stability (-30°C to 60°C, +25°C Ref.)	2.5 ppm	
Power Output	5W (VHF)	4W (UHF)
Modulation Limiting	±2.5 @ 12.5kHz, ±4.0 @ 20kHz, ±5.0 @ 25kHz	
FM Hum & Noise	-40 dB	
Conducted/Radiated Emission	-36 dBm < 1 GHz / -30 dBm > 1 GHz	
Modulation FCC Type	12.5 kHz 11Kof3E, 25 kHz 16Kof3E	
Audio Response (from 6 dB/octave pre-emphasis 300-3000Hz)	+1 to -3 dB	
Audio Distortion	3% <5% 1kHz 60% dev	
RECEIVER SPECIFICATION	VHF	UHF
*Frequency (MHz)	136-174 / 330-400 / 403-470 / 450-527	
Frequency Separation	Full bandsplit	
Sensitivity (12dB SINAD) EIA	.35µV	.25µV
Intermodulation (EIA)	-65dB	70 dB
Adjacent Channel Selectivity	60 dB @ 12.5kHz, 70 dB @ 25 kHz	
Spurious Rejection	70 dB	
Rated Audio	500 mW	
Audio Distortion	<5%	3%
Hum & Noise	-40 dB	
Audio Response (300-3000Hz)	+1 to -3 dB	
Conducted Spurious Emission	-57 dBm < 1GHz, -47 dBm > 1GHz, FCC Part 15	

\* Availability subject to country law and regulations / Specifications subject to change without notice.  
All specifications shown are typical. Radios meet applicable regulatory requirements.

AC3-04-010

Visit us at [www.mot.com/cgiss/AP](http://www.mot.com/cgiss/AP)



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