

GP328 PLUS / GP338 PLUS



MOTOROLA'S SMALLEST PROFESSIONAL RADIO





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COMPACT, LIGHT & 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-way radios – the smallest in Motorola's Professional Series. They are compact, light and fit easily into the palm of your hand.

USERS

Public Safety:

The GP328 Plus and GP338 Plus are compact enough to fit neatly underneath a jacket - most suited for any covert operation. They are light and can be worn comfortably on the waist enabling hands free mobility. And, for those in control during emergency rescue operations like air crashes, bombings and riots, the GP328 Plus and GP338 Plus are instant command and control tools with clear audio quality for you to manage a crisis efficiently.

Private Security:

From transporting money to providing professional protection, the rugged palm-sized GP328 Plus & GP338 Plus are discreet and provide clear audio reception even in a high noise environment.

Management:

Maintain a professional image and benefit from 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 anytime, anywhere.

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 with increased mobility.



GP328 Plus with slim battery

COMMON FEATURES

- Advanced Audio Technology
- Emergency Alarm/Siren
- Switchable RF Power levels
- Repeater/Talkaround
- Tight/Normal Squelch
- LED Battery Gauge
- Tone Tagging
- Internal VOX
- Priority Scan
- Enhanced Signalling System

LIGHTWEIGHT AND FITS EASILY INTO THE PALM OF YOUR HAND

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 alerts.

Switchable RF Power Levels

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. A 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 a tight squelch to filter out the interference of unwanted weak signals; or by switching to normal squelch to increase coverage.

GP328 PLUS – COMPACT & EASY TO USE

The compact GP328 Plus offers a palm-sized solution for professionals on the go who want to stay in touch all the time. The compact GP328 Plus offers a palm-sized solution for professionals on the go who want to

stay in touch all the time. Equipped with user friendly features and intuitive programmable buttons for easy navigation, the GP328 Plus can enhance your productivity and streamline your radio operations.

16 channels

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

LED Battery Gauge

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

Tone Tagging

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

ENHANCED SIGNALLING FEATURES OF GP328 PLUS

The GP328 Plus supports the following signalling system:

MDC1200 Signalling Protocol

- **PTT-ID (encode)**
Identifies your outgoing calls on other users' radios
- **Selective Call (encode)**
Lets you receive a specific group or individual call
- **Call Alert (decode)**
- **Notifies you of incoming calls**
- **Radio Check (decode)**
Tell others if your radio is activated or within range
- **Selective Radio Inhibit (decode)**
Allows system owner to disable stolen or missing radio
- **Quik Call II Signalling**
- **DTMF Signalling**



COMPACT, LIGHT AND RUGGED

GP338 PLUS – COMPACT & VERSATILE

The GP338 Plus offers a versatile two-way solution for those who require additional features to meet their expanding communication needs. No matter where it is used, in the rugged environment of the surveillance industry or the posh elegance of a hotel, the GP338 Plus is the radio of choice for any growing organisation.

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 needed 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 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-allowing greater flexibility in organising different work groups.

Menu Keys

The easy to navigate menu keys allow users to select the relevant functionalities at their fingertips.

Dual Tone Frequency (DTMF) Encode

Allows users easy access to local landline telephone networks or to make a private calls to other radio system users within one radio.

Dual Priority Scanning

Allows activity on different channels to be monitored, and 2 channels could be designated as priority channels which are monitored more frequently.

ENHANCED SIGNALLING FEATURES FOR GP338 PLUS

The GP338 Plus keypad supports the following signalling system:

MDC1200 Signalling Protocol

- **PTT-ID (encode/decode)**
Every time the PTT button is pressed, it enables the transmission of the caller's ID and the decoding of the sender's ID.
- **Status/Messages (decode)**
This feature enables you to replace frequently used voice calls with status messages, saving you valuable communication time.
- **Call Alert (encode/decode)**
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 (encode/decode)**
The radio users receive a unique individual or group voice message with an alert to indicate that it is a selective call.
- **Quik Call II Signalling**
- **DTMF Signalling**



ENHANCE YOUR RADIO'S 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, chargers or carrying cases can enhance your operational productivity. Motorola's accessories are built with the highest quality standards and are specially engineered to ensure maximum performance of your radio, no matter what profession you're in.

Battery & Charger



Slim & Hicap Lilon Batteries
JMNN4023/JMNN4024



1350mAh FM Lilon Battery
PMMN4073



Single Unit Charger
PMTN4024 (US Plug)
PMTN4025 (Euro Plug)
PMTN4026 (UK Plug)



Multi-Unit Charger
WPLN4187 (US Cord)
WPLN4188 (UK Cord)
WPLN4189 (Euro Cord)

Audio Accessories



Remote Speaker Microphone IP57-Rated (Mic Head Only)
PMMN4023



VOX/PTT Interface Module shown with
JMMN4064
Ear Microphone
BDN6768



Earbud with Microphone/PTT
PMLN4519



Accessory Adapter
PMLN4455

Carrying Accessories



Soft Leather Case with Swivel Clip
PMLN4421**



Nylon Case with Swivel Clip
PMLN4470**



Soft Leather Case with Swivel Clip
PMLN4521



Programming Cable
JMKN4123

**recommend for non-keypad models.

Service Aids



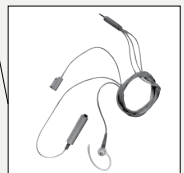
PMLN 4455 to be used with 3.5mm threaded range of Audio Accessories



Earpiece/Headset
NMN6246
BDN6780



2-wire surveillance
BDN6667 (Biege)
BDN6729 (Black)



3-wire surveillance
BDN6668 (Biege)
BDN6730 (Black)

Portable Military Standards 810 C, D, & E

Applicable MIL-STD	810C		810D		810E	
	Methods	Procedures	Methods	Procedures	Methods	Procedures
Low Pressure	500.1	1	500.2	2	500.3	2
High Temp	500.1	1, 2	501.2	1, 2	501.3	1, 2
Low Temp	502.1	1	502.2	1, 2	502.3	1, 2
Temp. Shock	503.1	1	503.2	1	503.3	1
Solar Radiation	505.1	1	505.2	1	505.3	1
Rain	506.1	1, 2	506.2	1, 2	506.3	1, 2
Humidity	507.1	2	507.2	2, 3	507.3	2, 3
Salt Fog	509.1	1	509.2	1	509.3	1
Dust	510.1	1	510.2	1	510.3	1
Vibration	514.2	8, 10	514.3	1	514.4	1
Shock	516.2	1, 2, 5	516.3	1, 4	516.4	1, 4

Factory Mutual Approval

GP328 Plus & GP338 Plus radio units are certified by Factory Mutual Approvals as intrinsically safe for use in Division 1, Class I, II, III, Groups C,D,E,FG and Division 2, Class I, Groups A,B,C,D, when ordered with the Factory Mutual approved battery option.

Motorola: Reliability & Quality



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.



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 & 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		265 gm	
With Lilon (Hicap)Battery:	270 gm		285 gm	
Average Battery Life @ 5/5/90 Cycle	Low Power		High Power	
With Lilon (Slim) Battery:	10 hours		7 hours	
With Lilon (Hicap)Battery:	14 hours		10 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/EIA 603			
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)	130-174 / 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 11K0F3E , 25 kHz 16K0F3E	
Audio Response (from 6 dB/octave pre-emphasis 300-3000Hz)	+1 to -3 dB	
Audio Distortion	3%	

RECEIVER SPECIFICATION	VHF / UHF	
*Frequency (MHz)	130-174 / 330-400 / 403-470 / 450-527	
Frequency Separation	Full bandsplit	
Sensitivity (12dB SINAD) EIA	.25µV	
Intermodulation (EIA)	70 dB	
Adjacent Channel Selectivity	60 dB @ 12.5kHz, 70 dB @ 25 kHz	
Spurious Rejection	70 dB	
Rated Audio	500 mW	
Audio Distortion	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.

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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