

**GP328  
PROFESSIONAL  
PORTABLE  
2-WAY RADIO**



The GP328 is the two-way radio solution for professionals who need to stay in contact. This practical radio can easily increase productivity by keeping users communicating, yet streamlines their radio use – allowing them to concentrate on the job at hand. With the GP328, communication could not be easier. The GP328 comes with 2 models – 4 channel and 16 channel model to organise work groups with ease and efficiency.

**EASY TO USE, LIGHTWEIGHT YET RUGGED TO SUIT YOUR EVERY NEED**

Ideal when you need:

- wide range coverage within the workplace
- simple-to-operate two way radio
- to contact people who are mobile
- to make several calls to repeat the same message
- to manage a facility or more than one building

**GP328 KEY FEATURES AND BENEFITS**

**X-PAND™ AUDIO TECHNOLOGY**

Motorola's special voice compression and expansion technology called X-PAND enables crisper, clearer and stronger audio quality, allowing you to keep communicating in any noisy environment.

**LED BATTERY GAUGE**

Tri-colour LED to indicate battery strength, avoiding failed communication with early warning low battery strength.

**EMERGENCY SIREN**

Easy-to-access, one-touch button with piercing alarm to seek help in a critical situation.

**SWITCHABLE RF POWER LEVEL**

Optimise coverage and conserve battery consumption.

**PROGRAMMABLE CHANNEL SPACING OF 12.5/25KHZ MODE:**

Flexible and easy migration of channel spacing requirements in any situation.

**REPEATER/TALKAROUND ENABLE/DISABLE:**

Freedom to communicate via a repeater for wide area coverage; or bypass a repeater and talk directly to another unit for easy local unit-to-unit communications.

**TIGHT/NORMAL SQUELCH:**

Flexibility to switch to tight squelch to filter out excessive noise; or normal squelch for normal coverage.

**FIELD RETROFIT OPTION BOARDS:**

Easy to install, affordable add-on functionality whenever your needs arise. Option Boards are available for:

- DTMF Decode for incoming calls capability;
- Voice Storage for recording and playing back voice messages.

**INTERNAL VOICE OPERATED TRANSMISSION (VOX):**

For hands-free operation, activate this option by speaking with the optional headsets.

**BATTERY OPTIONS:**

Flexible choice of batteries

- NiDC Battery
- High Capacity NiMH Battery
- Ultra High Capacity NiMH Battery
- Lithium Ion Battery

**SIGNALLING FEATURES:**

The GP328 4 channel model offers the following MDC1200 signalling:

- PTT-ID
- Radio Check

**OTHER GP328 FEATURES:**

- Channel Scan
- PL/DPL
- Time-Out-Timer
- Busy Channel Lockout

**THE 16-CHANNEL GP328 MODEL HAS THE FOLLOWING ADDED FEATURES:**

**TONE TAGGING:**

Assign 8 different ringing tones to 8 specific users/talkgroups making audio caller identification to these 8 groups possible.

**ENHANCED SIGNALLING FEATURES**

MDC1200:

- Call Alert Decode
- Voice Selective Call Decode
- Selective Radio Inhibit

Quick Call II

- Call Alert Decode
- Voice Selective Decode

Dual Tone Multiple Frequency (DTMF) Signalling Encode.



**GP328 FEATURES:**

**PRODUCT SPECIFICATIONS**

**GENERAL**

Channel Capacity:	<b>4 Channels</b>	<b>16 Channels</b>
*Frequency	136 – 174 MHz 403 – 470MHz 450 – 527MHz	136 – 174 MHz 330 – 400MHz 403 – 470MHz 450 – 527MHz

Power Supply: Provided through rechargeable battery – 7.5V

**DIMENSIONS**

	H	X	W	X	D
With Standard High Capacity NiMH Battery:	137mm	x	57.5mm	x	37.5mm
With Ultra High Capacity NiMH Battery:	137mm	x	57.5mm	x	40.0mm
With NiCD Battery:	137mm	x	57.5mm	x	40.0mm
With Lilon Battery:	137mm	x	57.5mm	x	33.0mm

(Radio footprint height excluding knobs)

**WEIGHT**

With Standard High Capacity NiMH Battery:	420gm
With Ultra High Capacity NiMH Battery:	500gm
With NiCD Battery:	450gm
With Lilon Battery:	350gm

**AVERAGE BATTERY LIFE @ 5/5/90 CYCLE**

	LOW POWER	HIGH POWER
With Standard High Capacity NiMH Battery:	11 hours	9 hours
With Ultra High Capacity NiMH Battery:	14 hours	11 hours
With NiCD Battery:	12 hours	9 hours
With Lilon Battery:	11 hours	8 hours

Sealing: Withstands rain testing per MIL STD 810C/D/E and IP54

Shock and Vibration: Protection provided via impact resistant housing exceeding MIL STD 810C/D/E and TIA/EA603

Dust & Humidity: Protection provided via impact resistant housing exceeding MIL STD 810C/D/E and TIA/EA603

**TRANSMITTER**

Channel Capacity	<b>4 Channels</b>	<b>16 Channels</b>
*Frequency	136–174MHz 403 – 470MHz 450 – 527MHz	136 – 1741 MHz 330 – 400MHz 403 – 470MHz 450 – 527MHz

Frequency Separation:	Full bandsplit
Channel spacing	12.5/20/25 kHz
Freq Stability: (-30°C to 60°C, +25°C Ref.)	±0.00025%
Power:	5W – 136-174 4W – 403-470 4W – 450-527
Modulation limiting	±2.5 @ 12.5kHz /±4.0 @ 20kHz/±5.0 @25kHz
FM Hum & Noise	-40dB
Conducted/Radiated Emission	66dBw
Modulated FCC Type	12.5khz 11KO F3E/25kHz 16KOF3E
Audio Response (from 6dB/octave pre emphasis 300-3000Hz)	+1 to -3dB
Audio Distortion	3%

**RECEIVER**

Channel Capacity:	<b>4 Channels</b>	<b>16 Channels</b>
*Frequency	136 – 174MHz 403 – 470MHz 450 – 572MHz	136 – 174MHz 330 – 400MHz 403 – 470MHz 450 - 527MHz

Frequency Separation	Full bandsplit
Sensitivity (12dB SINAD) EIA	.25µV
Intermodulation (EIA)	70dB
Adjacent Channel Selectivity	60dB @ 12.5kHz/70dB @ 25kHz
Spurious Rejection	70dB
Rated Audio	500mW
Audio Distortion	3%
Hum and Noise	-45db @ 12.5kHz/-50dB @ 25kHz
Audio Response (300 –3000Hz)	+1 to – 3dB
Conducted Spurious Emission	-57dBm < 1GHz/-47dBm > 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.



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**PORTABLE MILITARY STANDARDS 810C, D & E**

**810C**

Applicable MIL-STD	Methods	Procedures
Low Pressure	500.1	1
High Temp	501.1	1, 2
Low Temp	502.1	1
Temp. Shock	503.1	1
Solar Radiation	505.1	1
Rain	506.1	1, 2
Humidity	507.1	2
Salt Fog	509.1	1
Dust	510.1	1
Vibration	514.2	8, 10
Shock	516.2	1, 2, 5

**810D**

Applicable MIL-STD	Methods	Procedures
Low Pressure	500.2	2
High Temp	501.2	1, 2
Low Temp	502.2	1, 2
Temp. Shock	503.2	1
Solar Radiation	505.2	1
Rain	506.2	1, 2
Humidity	507.2	2, 3
Salt Fog	509.2	1
Dust	510.2	1
Vibration	514.3	1
Shock	516.3	1, 4

**810E**

Applicable MIL-STD	Methods	Procedures
Low Pressure	500.3	2
High Temp	501.3	1, 2
Low Temp	502.3	1, 2
Temp. Shock	503.3	1
Solar Radiation	505.3	1
Rain	506.3	1, 2
Humidity	507.3	2, 3
Salt Fog	509.3	1
Dust	510.3	1
Vibration	514.4	1
Shock	516.4	1, 4

**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 carry cases can enhance your productivity. Motorola 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.



RMN4048A



PMMN4062R/PMLN4393

**One-Year Warranty**

Each Motorola radio is backed by a one-year warranty on radio parts and labour on the battery, charger, antenna and belt clip.



**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 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.