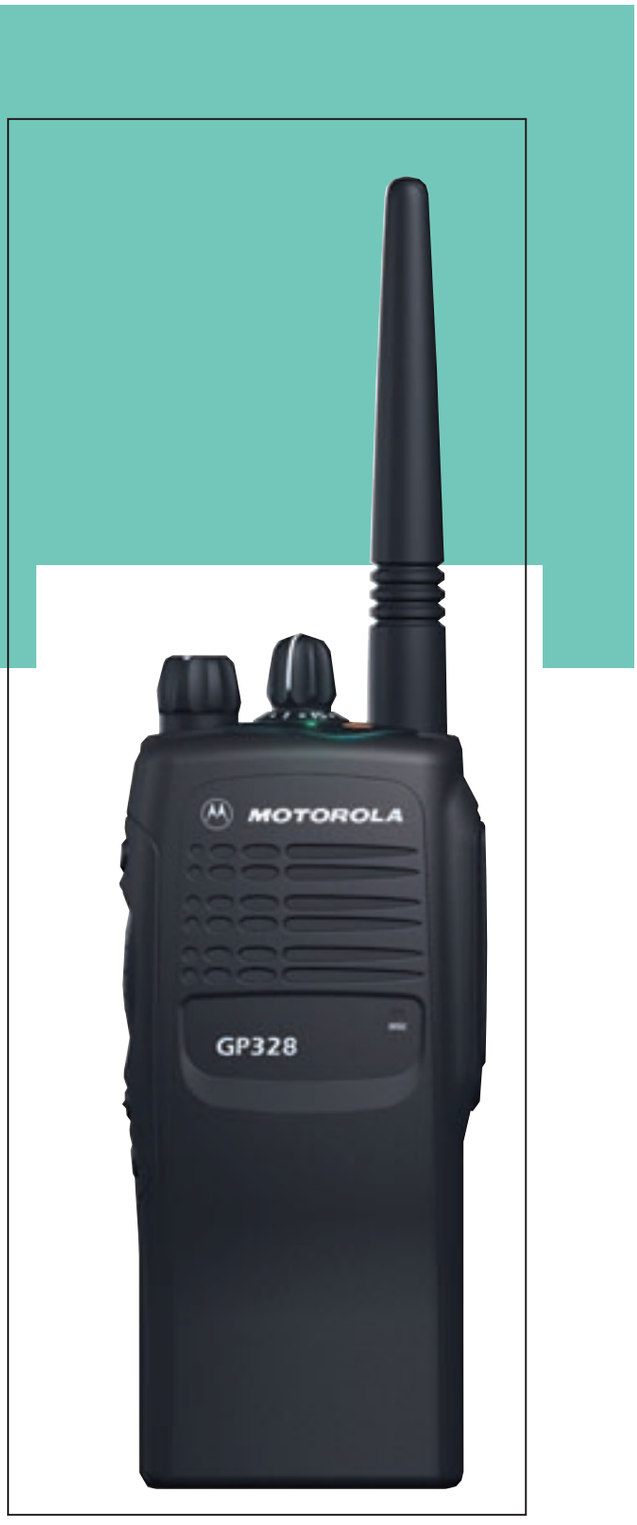
# *GP328 PROFESSIONAL PORTABLE 2-WAY RADIO*

MOTOROLA
*intelligence everywhere™*




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: | 4 Channels | | | | 16 Channels |
| *Frequency | 136 – 174 MHz | | | | 136 – 174 MHz |
| | 403 – 470MHz | | | | 330 – 400MHz |
| | 450 – 527MHz | | | | 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/EIA603 | | | | |
| ***TRANSMITTER*** | | | | | |
| Channel Capacity | 4 Channels | | | | 16 Channels |
| *Frequency | 136–174MHz | | | | 136 – 1741 MHz |
| | 403 – 470MHz | | | | 330 – 400MHz |
| | 450 – 527MHz | | | | 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: | 4 Channels | | | | 16 Channels |
| *Frequency | 136 – 174MHz | | | | 136 – 174Mhz |
| | 403 – 470MHz | | | | 330 – 400MHz |
| | 450 – 572MHz | | | | 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.

MOTOROLA

HKRSolutions
*Two-way Radio & Accessories Specialist*



GP328-03.Aust.May-02

*Recommended Dealer:*
*www.hkrsolutions.com*

## *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.

ALT™ 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 810 MIL-STD 810C, D and E
Stamp of approval from the U.S. Military for use in rough environments.

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