

GP328 PORTABLE RADIO - A PRACTICAL RADIO

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.

16 Channels

Maximum of 16 channels to organise work groups with ease and efficiency.

Tone Tagging

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

LED Battery Gauge

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

Emergency Siren

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

Switchable RF Power Level

Optimize coverage and conserve battery consumption.

Field Retrofit Option Boards

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

- I) DTMF Decode for in-coming calls capability.
- II) Voice Storage for recording and playing back voice messages.
- III) Mandown Alert for triggering an emergency procedure when the radio is horizontal or still for a pre-defined time. Ideal for radio users who work alone or in isolated environments

Programmable Channel Spacing Of 12.5/25 kHz 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.

Internal Voice Operated Transmission (VOX)

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

Tight/Normal Squelch

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



GP328

The Power Tool for Contact & Control

The GP328 is the two-way radio solution for professionals who need to stay in contact but don't require extra features. 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 couldn't be easier.

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 Specifications

General Specifications

| | | | | | |
|---|---|----------|----------|----------|------------|
| *Frequency (MHz): | 29 - 42 / 35 -50 / 136 -174 / 330 - 400 / 403 - 470 / 450 - 527 | | | | |
| Channel Capacity: | 16 Channels | | | | |
| 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: | 420 gm | | | | |
| With Ultra High Capacity NiMH Battery: | 500 gm | | | | |
| With NiCD Battery: | 450 gm | | | | |
| With Lilon Battery: | 350 gm | | | | |
| AVERAGE BATTERY LIFE @ 5/5/90 CYCLE | Low Power | | | | High Power |
| With Standard High Capacity NiMH Battery: | 11 hours | | | | 8 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 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

| Specifications | Low Band | VHF/UHF |
|--|--------------------------------------|---|
| *Frequency (MHz) | 29 - 42 / 35 - 50 | 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°CRef.) | +/- 0.0010% | +/- 0.00025% |
| Power | 6W | 5W – 136 -174 MHz 4W – 330 - 400 / 403 - 470 / 450 - 527 MHz |
| Modulation limiting | ±2.5 @ 12.5kHz ±5.0 @ 20kHz/25kHz | ±2.5 @ 12.5kHz ±4.0 @ 20kHz ±5.0 @ 25kHz |
| FM Hum & Noise | -40dB | |
| Conducted/Radiated Emission | -36dBm < 1GHz / -30dBm > 1GHz | |
| Modulation FCC Type | 12.5 kHz 11K0F3E / 25 kHz 16K0F3E | |
| Audio Response (from 6 dB/ octave pre-emphasis 300-3000Hz) | +1 to -3dB | |
| Audio Distortion | 3% | |

RECEIVER

| Specifications | Low Band | VHF/UHF |
|------------------------------|---|---|
| *Frequency (MHz) | 29 -42 / 35 -50 | 136 -174 / 330 - 400 / 403 - 470 / 450 -527 |
| 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 | 500 mW | |
| 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.

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.

ENHANCED SIGNALLING FEATURES

The GP328 two-way radio supports these three Signalling protocols:

I) MDC1200 Signalling:

- PTT-ID (encode)
Identifies your outgoing calls on other users' radios
- Selective Call (decode)
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
- Emergency (encode)
Sounds an alarm or alerts dispatcher in urgent situations

II) Quik Call II Signalling:

- Call Alert
- Voice Selective Call

III) Dual Tone Multiple Frequency (DTMF)

Signalling Encode:

GP328 optional retrofit keypad model supports DTMF encode features

OTHER GP328 FEATURES

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

ACCESSORIES SOLUTION

Battery Options

Flexible choice of batteries:

- NiCD Battery
- High Capacity NiMH Battery
- Ultra High Capacity NiMH Battery
- Factory Mutual Approved NiCD & NiMH Batteries

Powerful impres™ Smart Energy Solution

The impres™ Smart Energy System helps battery maintenance, predicts end-of-service life and provides real-time battery usage information.

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.



Light Weight Head Set
AZRMN4018



NiMH Battery & Belt Clip
PMNN4008



Carry Case
HLN9701



Multi-unit Charger



impres™ Smart Energy
System



Remote Speaker Microphone
PMMN4002