GP328

The Power Tool for Contact & Control

Motorola GP328

The radio solution for professionals

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
- manage one or more facilities

GP328 Features & Benefits

The GP328 is the two-way radio solution for professionalswho need to stay in contact

Common Features of the GP328 4 & 16 Channel Models

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 – Standard & Impres:
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

Additional Features of the GP328 16 Channel Model

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.
Option Boards

- Mandown Board (16 channel only)

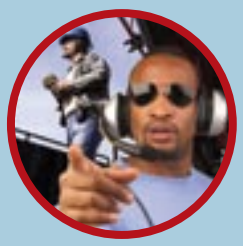
Enhance Your Radio's Capabilities

A comprehensive range of accessories is also 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

PMMN4021

PMLN4620



RMN5015

Mobile Military Standards 810 C, D, & E

	810 C		810 D		810 E	
Applicable MIL–STD	Methods	Procedures	Methods	Procedures	Methods	Procedures
Low Pressure	500.1	1	500.2	2	500.3	2
High Temp	501.1	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

Accelerated Life Testing
Stringent Motorola Accelerated Life Testing simulating five years of hard use in real life.

MIL-STD 810C, D, E and F
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 Specifications

General Specifications

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.

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www.motorola.com/businessandgovernment

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