

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.

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:

- i) DTMF Decode for in-coming calls capability.
- ii) 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:

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

Singnalling Features:

The GP328 4 channel model offers the following

MDC1200 singnalling:

- PTT-ID
- Radio Check

Other GP328 Features:

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



MOTOROLA

Commercial, Government and Industrial Solutions Sector



MOTOROLA

TWO-WAY RADIOS

GP328

Portable Radio

A Practical Radio



contact

control



Professional Radio

The GP328 Professional Radio

A Practical Radio

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.

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 on low battery strength.

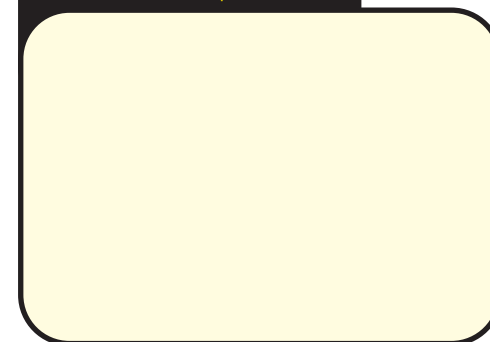
Emergency Siren:

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.

For more information, please contact:



Cat. No:AC3-04-010 (Singapore/Mysia) rev.1

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The Power Tool For Contact & Control

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

I) MDC1200:

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

II) Quik Call II:

- Call Alert Decode
- Voice Selective Call Decode

III) Dual Tone Multiple Frequency(DTMF)Signalling Encode.



Two-Year Warranty

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

GP328 Features :

Product Specifications

GENERAL

Channel Capacity:	4 Channels	16 Channels
*Frequency	136 - 174 MHz 403 - 470 MHz 450 - 527 MHz	136 - 174 MHz 330 - 400 MHz 403 - 470 MHz 450 - 527 MHz

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/EIA603

TRANSMITTER

Channel Capacity:	4 Channels	16 Channels
*Frequency	136 - 174 MHz 403 - 470 MHz 450 - 572 MHz	136 - 174 MHz 330 - 400 MHz 403 - 470 MHz 450 - 527 MHz

Frequency separation: Full bandsplit

Channel spacing: 12.5/20/25kHz

Freq Stability:(-30°C to 60°C,+25°CRef.) +/- 0.00025%

Power: 5W – 136 - 174 4W – 403 - 470

Modulation limiting: ±2.5 @ 12.5kHz/±4.0 @ 20kHz/±5.0 @ 25kHz

FM Hum & Noise: -40dB

Conducted/Radiated Emission: -66 dBw

Modulation FCC Type: 12.5 kHz 11K0 F3E / 25 kHz 16K0F3E

Audio Response: (from 6 dB/octave pre-emphasis 300-3000Hz) +1 to -3dB

Audio Distortion: 3%

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.

Key Accessories:



Transformer



Antenna



Rapid-rate Desktop Charger



Battery & Belt Clip



Carry Case



Remote Speaker Microphone

RECEIVER

Channel Capacity:	4 Channels	16 Channels
*Frequency	136 - 174 MHz 403 - 470 MHz 450 - 527 MHz	136 - 174 MHz 330 - 400 MHz 403 - 470 MHz 450 - 527 MHz

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 / Specifications subject to change without notice. All specifications shown are typical. Radios meet applicable regulatory requirements.

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	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

Motorola: Reliability & Quality



Accelerated Life Testing

Stringent Motorola's 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.



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