



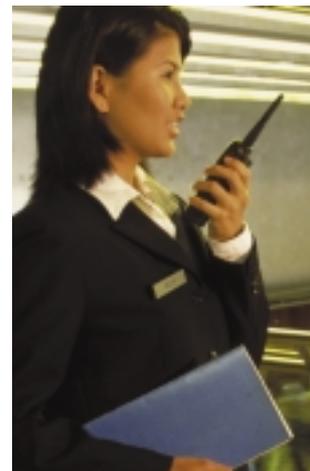
*THE POWER TOOL FOR CONTACT & CONTROL*

*GP328  
PORTABLE RADIO*



*GP328*

# 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.

## **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.

### **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.

### **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.

### **Battery Options**

Flexible choice of batteries:

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

### **Enhanced Signalling Features**

The GP328 two-way radio comes in these three choices of Signalling protocol:

I) MDC1200:

- PTT-ID
- Voice Selective Call
- Selective Radio Inhibit
- Call Alert
- Radio Check
- Emergency

II) Quik Call II:

- 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

# Increase Productivity By Keeping Users In Contact



## GP328 Specifications

### GENERAL

*Frequency :	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:	<b>H</b>	<b>x</b>	<b>W</b>	<b>x</b>	<b>D</b>
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

SPECIFICATION	Low Band	VHF/UHF	SPECIFICATION	Low Band	VHF/UHF
*Frequency	29 - 42 / 35 - 50	136 - 174/330 - 400/ 403 - 470/450 - 527	*Frequency	29 - 42 / 35 - 50	136 - 174/330 - 400/ 403 - 470/450 - 527
Frequency separation	Full bandsplit		Frequency separation	Full bandsplit	
Channel spacing	12.5/20/25kHz		Sensitivity (12dB SINAD)EIA	25µV	
Freq Stability:(-30°C to 60°C,+25°CRef.)	+/- 0.0010%	+/- 0.00025%	Intermodulation(EIA)	70dB	
Power	6W	5W – 136-174 4W – 403-470	Adjacent Channel Selectivity	60dB @ 12.5kHz/70dB @ 25kHz	
Modulation limiting	±2.5 @ 12.5kHz ±5.0 @ 20kHz/25kHz	±2.5 @ 12.5kHz ±4.0 @ 20kHz ±5.0 @ 25kHz	Spurious Rejection	70dB	
FM Hum & Noise	-40dB		Rated Audio	500 mW	
Conducted/Radiated Emission	-36dBm<1GHz/-30dBm>1GHz		Audio Distortion	3%	
Modulation FCC Type	12.5 kHz 11K0F3E / 25 kHz 16K0F3E		Hum and Noise	-45dB @ 12.5kHz, -50dB @ 25kHz	
Audio Response ( from 6 dB/ octave pre-emphasis 300-3000Hz)	+1 to -3dB		Audio Response (300-3000Hz)	+1 to -3dB	
Audio Distortion	3%		Conducted Spurious Emission	-57dBm < 1GHz/-47dBm > 1GHz/FCC Part 15	

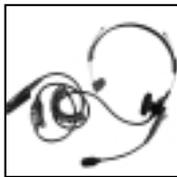
\* Availability subject to country law and regulations.

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.

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	500.1	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



Light Weight Head Set  
AZRMN4018



NiMH Battery & Belt Clip  
PMNN4008



Carry Case  
HLN9701



Multi-unit Charger  
PMTN4028



Rapid-rate Desktop Charger  
PMTN4025



Remote Speaker Microphone  
PMMN4002

**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.

*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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