TWO-WAY RADIOS

GP640: The Popular Radio

The Popular Radio is the simple two-way radio solution for professionals who need to stay in contact. The GP640 can increase productivity, keeping users communicating, whilst allowing them to concentrate on the job at hand. With the Popular Radio, communication couldn't be easier.



Operator friendly controls and features include:

- Signalling
 The fully compliant MPT signalling
 package includes MPT1343, Regionet
 43 and ANN modes of operation.
 Radios are configurable for up to 2
 personalities including Talkgroup
 Select and Conventional signalling.
- X-Pand™ Voice Compression and Low Level Expansion Crisp, clear and strong audio quality in virtually any noisy environment. Low level expansion allows further improvements in audio quality by reducing noise usually heard during pauses in conversation.
- Dynamic Regrouping Provides over-the-air reconfiguration of the radio.
- Missed Call Alerts
 The radio can store an incoming
 caller identity and prompt the user to
 return the call they receive.
- Option Board Expandability
 You can expand the capabilities of
 GP640 by adding option boards such
 as Voice Storage.

- Wideband and Programmable Channel Spacing Provides flexibility in deployment and stocking.
- Time-out Timer
 Limits the amount of time a user has
 to continuously transmit on a
 channel. This allows for more
 efficient use of the channel.

Please check with your dealer for availability on specific option boards.



As Dedicated As You Are

GP640 Portable Two-Way Radio Specifications

General Specifications		
Channel Capacity	16 (Conventional Mode)	
Power Supply	Rechargeable battery 7.5v	
Dimensions: H x W x D (mm) With standard high capacity NiMH battery With ultra high capacity NiMH battery With NiCD battery With Lilon battery	Height excluding knobs 137 × 57.5 × 37.5 137 × 57.5 × 40.0 137 × 57.5 × 40.0 137 × 57.5 × 33.0	
Weight: (gm) With Standard high capacity NiMH battery With Ultra high capacity NiMH battery With NiCD battery With Lilon battery	420 500 450 350	
Average Battery Life @5/5/90 Cycle: With Standard high capacity NiMH battery With Ultra high capacity NiMH battery With NiCD battery With Lilon battery	Low Power 11 hours 14 hours 12 hours 11 hours	High Power 8 hours 11 hours 9 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	

Portable Military Standards 810 C, D, & E						
	810C		810D		810E	
Applicable MIL-STD	Methods	Procedures	Methods	Procedures	Methods	Procedures
Low Pressure	500.1	1	500.2	2	500.3	2
High Temperature	501.1	1,2	501.2	1,2	501.3	1,2
Low Temperature	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

Transmitter		
*Frequencies - Full Bandsplit	VHF: 136-174 MHz UHF 1: 403-470 MHz UHF 2: 450-527 MHz	
Channel Spacing	12.5/20/25 kHz	
Frequency Stability (-25°C to +55°C, +25° Ref.)	±2.5 ppm	
Power	136-174: 1-5W 403-470: 1-4W 450-527: 1-4W	
Modulation Limiting	±2.5 @ 12.5 kHz ±4.0 @ 20 kHz ±5.0 @ 25 kHz	
FM Hum & Noise	-40 dB typical	
Conducted/Radiated Emission	-36 dBm <1 GHz -30 dBm >1 GHz	
Adjacent Channel Power	-60 dB @ 12.5 kHz -70 dB @ 20/25 kHz	
Audio Response (300-3000Hz)	+1 to -3 dB	
Audio Distortion	3%	

Receiver			
*Frequencies - Full Bandsplit	VHF: 136-174 MHz UHF 1: 403-470 MHz UHF 2: 450-527 MHz		
Channel Spacing	12.5/20/25 kHz		
Frequency Stability (-25°C to +55°C, +25° Ref.)	±2.5 ppm		
Sensitivity (12 dB SINAD) EIA Sensitivity (20 dB SINAD) ETS	.25 μV typical .50 μV typical		
Intermodulation EIA	70 dB		
Adjacent Channel Selectivity	60 dB @ 12.5 kHz 70 dB @ 20/25 kHz		
Spurious Rejection	70 dB		
Rated Audio	0.5W		
Audio Distortion @ Rated Audio	3% typical		
Hum & Noise	-40 dB @ 12.5 kHz -50 dB @ 20/25 kHz		
Audio Response (300-3000 Hz)	+1 to -3 dB		
Conducted Spurious Emission	-57 dBm <1 GHz -47 dBm >1 GHz ETS 300 086		

Data for +25°C unless otherwise specified

Specifications are subject to change without notice and are issued for guidance purposes only.

All specifications listed are typical. Radios meet applicable regulatory requirements.

Conforms to EC directive 89/336/EEC

Complies with ETS 300 113

Contact your local Authorised Motorola Dealer to find out more about how communicating with the Professional Radio series will benefit your organisation.



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For exceptional performance, reliability and quality, Motorola Original accessories and batteries are the only options. For full details, please refer to the Professional Radio Series Accessories brochure.









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