

KEY FEATURES

Signalling

- Fully compliant to MPT1327
- Includes MPT1343, RegioNet 43 and ANN dialling plan

Easy to use and set-up

- Programmable buttons for easy access to frequently used features
- Quick access to call selection
- Ruggedised design

Quality

- MIL Spec 810 compliant
- Meets IP54 environmental standards
- Passed Motorola Accelerated Life Test
- X-Pand™ voice compression technology

Efficiency

- Missed call alerts
- Dynamic regrouping for over the air configuration
- Talk Group Select Mode

Included as standard

- Battery
- Antenna
- Belt clip
- Accessory dust cover
- User manual

Accessory options

A wide range of accessory options are available to customise your radio

- Audio accessories
- Batteries and chargers
- Carry options

*For full details of available accessories,
please contact your local dealer or distributor*



GP640
Communication Made Easy.

The GP640, one of the market-leading radios in Motorola's Professional Series, is a simple communication solution for portable users on MPT networks requiring a high-quality radio. The GP640 is simple to use; featuring essential functionality to efficiently keep users in touch.

With option board capability and a wide range of accessories available within the Professional Series; it's easy to build a tailored communications solution to meet your needs.

SPECIFICATIONS

General Specifications			
Channel Capacity		16 (Conventional Mode)	
Power Supply		Rechargeable battery 7.5v	
Dimensions: H x W x D (mm)		Height excluding knobs	
With standard high capacity NiMH battery		137 x 57.5 x 37.5	
With ultra high capacity NiMH battery		137 x 57.5 x 40.0	
With NiCD battery		137 x 57.5 x 40.0	
With Li-Ion battery		137 x 57.5 x 33.0	
Weight: (gm)			
With Standard high capacity NiMH battery		420	
With Ultra high capacity NiMH battery		500	
With NiCD battery		450	
With Li-Ion battery		350	
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 Li-Ion 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	
Operating temperature:		-20°C to +55°C	

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

Data for +25°C unless otherwise specified

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	.25 µV typical
Sensitivity (20 dB SINAD) EN	.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 EN 300 086

*Availability subject to individual country's law and regulations.
Specifications are subject to change without notice and are issued for guidance only.
All specifications listed are typical. Radios meet applicable regulatory requirements.
Conforms to EC directive 89/336/EEC
Complies with EN 300 113
Contact your local Motorola Authorised Dealer to find out more about how communicating with the Professional Radio series will benefit your organisation.



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GP640-RE(08/06)



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