

## 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	
<b>Channel Capacity</b>	16 (Conventional Mode)
<b>Power Supply</b>	Rechargeable battery 7.5v
<b>Dimensions: H x W x D (mm)</b>	<b>Height excluding knobs</b>
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
<b>Weight: (gm)</b>	
With Standard high capacity NiMH battery	420
With Ultra high capacity NiMH battery	500
With NiCD battery	450
With Li-Ion battery	350
<b>Average Battery Life @5/5/90 Cycle:</b>	<b>Low Power</b> <b>High Power</b>
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
<b>Sealing:</b>	Withstands rain testing per MIL STD 810 C/D/E and IP54
<b>Shock and Vibration:</b>	Protection provided via impact resistant housing exceeding MIL STD 810-C/D/E and TIA/EIA 603
<b>Dust and Humidity:</b>	Protection provided via environment resistant housing exceeding MIL STD 810 C/D/E and TIA/EIA 603
<b>Operating temperature:</b>	-20°C to +55°C

## Portable Military Standards 810 C, D, & E

Applicable MIL-STD	810C		810D		810E	
	Methods	Procedures	Methods	Procedures	Methods	Procedures
<b>Low Pressure</b>	500.1	1	500.2	2	500.3	2
<b>High Temperature</b>	501.1	1,2	501.2	1,2	501.3	1,2
<b>Low Temperature</b>	502.1	1	502.2	1,2	502.3	1,2
<b>Temp. Shock</b>	503.1	1	503.2	1	503.3	1
<b>Solar Radiation</b>	505.1	1	505.2	1	505.3	1
<b>Rain</b>	506.1	1,2	506.2	1,2	506.3	1,2
<b>Humidity</b>	507.1	2	507.2	2,3	507.3	2,3
<b>Salt Fog</b>	509.1	1	509.2	1	509.3	1
<b>Dust</b>	510.1	1	510.2	1	510.3	1
<b>Vibration</b>	514.2	8,10	514.3	1	514.4	1
<b>Shock</b>	516.2	1,2,5	516.3	1,4	516.4	1,4

Data for +25°C unless otherwise specified

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

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