

## KEY FEATURES

**Signalling**

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

**Easy to use and set-up**

- Compact model for greater portability
- 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*



# GP644

Communication Made Easy.

The compact GP644, 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 GP644 is simple to use; featuring essential functionality to efficiently keep users in touch.

With 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>Power Supply</b>	Rechargeable battery 7.5v	
<b>Dimensions: H x W x D (mm)</b>	Height excluding knobs	
<b>With Standard Li-Ion battery</b>	101.5 x 55.5 x 30.5	
<b>With High capacity Li-Ion battery</b>	101.5 x 55.5 x 35.5	
<b>Weight: (gm)</b>		
<b>With Standard Li-Ion battery</b>	250	
<b>With High capacity Li-Ion battery</b>	270	
<b>Average battery Life @5/5/90 Cycle:</b>	<b>Low Power</b>	<b>High Power</b>
<b>With Standard Li-Ion battery</b>	>9 hours	>7 hours
<b>With High capacity Li-Ion battery</b>	>13 hours	>10 hours
<b>Sealing:</b>	Withstands rain testing per MIL STD 810 C/D/E and IP 54	
<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	

## TRANSMITTER

<b>*Frequencies - Full Bandsplit</b>	UHF: 403-470 MHz
<b>Channel Spacing</b>	12.5/20/25 kHz
<b>Frequency Stability (-30°C to +60°C, + 25°C Ref.)</b>	0.00025%
<b>Power</b>	Low: 1W High: 4W
<b>FM Hum &amp; Noise</b>	-40 dB typical
<b>Spurs/Harmonics</b>	-36 dBm <1 GHz -30 dBm >1 GHz
<b>Audio Response (300-3000Hz)</b>	+1 to -3 dB
<b>Audio Distortion</b>	<5% typical

## RECEIVER

<b>*Frequencies - Full Bandsplit</b>	UHF 1: 403-470 MHz
<b>Channel Spacing</b>	12.5/20/25 kHz
<b>Sensitivity (12 dB SINAD) EIA</b>	0.35 µV typical
<b>Intermodulation EIA</b>	-65dB
<b>Adjacent Channel Selectivity</b>	60 dB @ 12.5 kHz 70 dB @ 25 kHz
<b>Spurious Rejection</b>	-70 dB
<b>Rated Audio</b>	0.5W
<b>Image Rejection</b>	-70dB

## 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

\*Availability subject to individual country's law and regulations.

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

Radios meet applicable regulatory requirements.

Conforms to RTTE Directives: 1999/5/EC

Relevant standards: EN300 086-2, EN300 113-2, EN301 489-05

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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