

GP140 Communication made easy.



The GP140, one of the market-leading radios in Motorola's Professional Series, is a simple and affordable communication solution for portable users requiring a high-quality radio. It is easy to use with essential functionality and is the ideal entry solution.

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.

Key Features

Signalling

- Private Line™
- Conventional / MDC

Easy to use and set-up

- Programmable button:
- Ruggedised design

Protecting users

- Emergency
- Time-out timer

Quality

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

fficiency

- Channel scanning
- Adjustable power levels for battery life management
- Call management features including call forwarding

Included as standard

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

Accessory options A wide range of accessory options ar

available to customise your ra

- Audio accessories
- Datteries and charg
- Carry options

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

Specification Sheet

GENERAL SPECIFICATIONS					
Channel Capacity	16				
Power Supply	Rechargeable battery 7.5V				
Dimensions $H \times W \times D$ (mm) with:	Height excluding knobs				
High capacity NiMH battery	137 x 57.5 x 37.5				
Ultra high capacity NiMH battery	137 x 57.5 x 40.0				
NiCD battery	137 x 57.5 x 40.0				
Li-Ion battery	137 x 57.5 x 33.0				
Weight (gm) with:					
Standard high capacity NiMH battery	420				
Ultra high capacity NiMH battery	500				
NiCD battery	450				
Li-lon battery	350				
Average battery life @ 5/5/90 Cycle with:	Low Power	High Power			
High capacity NiMH battery	11 hours	8 hours			
Ultra high capacity NiMH battery	14 hours	11 hours			
NiCD battery	12 hours	9 hours			
Li-Ion battery	11 hours	8 hours			
Sealing:	Withstands rain testing	g per MIL STD 810 and IP54			
Shock and Vibration:	Protection provided via impact resistant housing				
	exceeding MIL STD 810 and TIA/EIA 603				
Dust and Humidity:	Protection provided via environment resistant				
	housing exceeding MIL STD 810 and TIA/EIA 603				
Operating temperature:	-30°C to +60°C				
Storage temperature:	-40°C to +85°C				

TRANSMITTER				
*Frequencies - Full Bandsplit	VHF: 136-174 MHz			
	UHF: 403-470 MHz			
Channel Spacing	12.5 / 20 / 25 kHz			
Frequency Stability	1.5 kHz @ 12.5 kHz			
(-30°C to +60°C, +25°C Ref.)	2.0 kHz @ 20/25 kHz			
Power	136-174: 1-5W			
	403-470: 1-4W			
Modulation Limiting	±2.5 @ 12.5 kHz			
	±4.0 @ 20 kHz			
	±5.0 @ 25 kHz			
Conducted/Radiated Emission	-36 dBm <1 GHz			
Adiacent Channel Power	-30 dBm ≥ 14 GHz -60 dB @ 12.5 kHz			
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	-70 dB @ 20/25 kHz			
	-70 dB @ 20/25 kHz			
RECEIVER	-70 dB @ 20/25 kHz			
RECEIVER *Frequencies - Full Bandsplit	-70 dB @ 20/25 kHz VHF: 136-174 MHz			
RECEIVER *Frequencies - Full Bandsplit	-70 dB @ 20/25 kHz VHF: 136-174 MHz UHF: 403-470 MHz			
RECEIVER *Frequencies - Full Bandsplit Channel Spacing	-70 dB @ 20/25 kHz VHF: 136-174 MHz UHF: 403-470 MHz 12.5 / 20 / 25 kHz			
RECEIVER *Frequencies - Full Bandsplit Channel Spacing Sensitivity (20 dB SINAD)	-70 dB @ 20/25 kHz VHF: 136-174 MHz UHF: 403-470 MHz 12.5 / 20 / 25 kHz 0.50 µV typical /			
RECEIVER *Frequencies - Full Bandsplit Channel Spacing Sensitivity (20 dB SINAD)	-70 dB @ 20/25 kHz VHF: 136-174 MHz UHF: 403-470 MHz 12.5 / 20 / 25 kHz 0.50 μV typical / 12.5 kHz			
RECEIVER *Frequencies - Full Bandsplit Channel Spacing Sensitivity (20 dB SINAD) Intermodulation	-70 dB @ 20/25 kHz VHF: 136-174 MHz UHF: 403-470 MHz 12.5 / 20 / 25 kHz 0.50 µV typical / 12.5 kHz 65 dB			
RECEIVER *Frequencies - Full Bandsplit Channel Spacing Sensitivity (20 dB SINAD) Intermodulation Adjacent Channel Selectivity	-70 dB @ 20/25 kHz VHF: 136-174 MHz UHF: 403-470 MHz 12.5 / 20 / 25 kHz 0.50 µV typical / 12.5 kHz 65 dB 60 dB @ 12.5 kHz			
RECEIVER *Frequencies - Full Bandsplit Channel Spacing Sensitivity (20 dB SINAD) Intermodulation Adjacent Channel Selectivity	-70 dB @ 20/25 kHz VHF: 136-174 MHz UHF: 403-470 MHz 12.5 / 20 / 25 kHz 0.50 µV typical / 12.5 kHz 65 dB 60 dB @ 12.5 kHz 70 dB @ 20/25 kHz			
RECEIVER *Frequencies - Full Bandsplit Channel Spacing Sensitivity (20 dB SINAD) Intermodulation Adjacent Channel Selectivity Spurious Rejection	-70 dB @ 20/25 kHz VHF: 136-174 MHz UHF: 403-470 MHz 12.5 / 20 / 25 kHz 0.50 µV typical / 12.5 kHz 65 dB 60 dB @ 12.5 kHz 70 dB @ 20/25 kHz 70 dB			
RECEIVER *Frequencies - Full Bandsplit Channel Spacing Sensitivity (20 dB SINAD) Intermodulation Adjacent Channel Selectivity Spurious Rejection Conduncted Spurious Emission	-70 dB @ 20/25 kHz VHF: 136-174 MHz UHF: 403-470 MHz 12.5 / 20 / 25 kHz 0.50 µV typical / 12.5 kHz 65 dB 60 dB @ 12.5 kHz 70 dB @ 20/25 kHz 70 dB -57 dBm <1 GHz			
RECEIVER *Frequencies - Full Bandsplit Channel Spacing Sensitivity (20 dB SINAD) Intermodulation Adjacent Channel Selectivity Spurious Rejection Conduncted Spurious Emission	-70 dB @ 20/25 kHz VHF: 136-174 MHz UHF: 403-470 MHz 12.5 / 20 / 25 kHz 0.50 µV typical / 12.5 kHz 65 dB 60 dB @ 12.5 kHz 70 dB @ 20/25 kHz 70 dB -57 dBm <1 GHz -47 dBm ≥ 14 GHz			

Portable Military Standards 810												
Applicable MIL-STD	810C		810D		810E		810F		810G			
	ivietnods	Proc./Cat.	Ivietnoas	Proc./Cat.	ivietnods	Proc./Cat.	Ivietnods	Proc./Cat.	IVIethods	Proc./Cat.		
Low Pressure	500.1	I	500.2	II	500.3	11	500.4	Ш	505.5	Ш		
High Temperature	501.1	1, 11	501.2	I/A1,II/A1	501.3	I/A1,II/A1	501.4	l/Hot,Il/Hot	501.5	I/Hot A1, II/Hot (A1)		
Low Temperature	502.1	I	502.2	I/C3,II/C1	502.3	I/C3,II/C1	502.4	I/C3,II/C1	502.5	I/C3,II/C1		
Temp. Shock	503.1	-	503.2	I/A1C3	503.3	I/C1A3	503.4	I	503.5	I/C		
Solar Radiation	505.1	Ш	505.2	I	505.3	I.	505.4	I	505.5	I		
Rain	506.1	1, 11	506.2	1, 11	506.3	1, 11	506.4	I, III	506.5	1, 111		
Humidity	507.1	П	507.2	Ш	507.3	Ш	507.4	-	507.5	-		
Salt Fog	509.1	-	509.2	-	509.3	-	509.4	-	509.5	-		
Blowing Dust	510.1	I.	510.2	I	510.3	I	510.4	I	510.5	I		
Blowing Sand	-	-	510.2	Ш	510.3	Ш	510.4	Ш	510.5	Ш		
Vibration	514.2	VIII/F, Curve-W	514.3	I/10,II/3	514.4	I/10,II/3	514.5	1/24	514.6	l/24		
Shock	516.2	1, 11	516.3	I, IV	516.4	I, IV	516.5	I, IV	516.6	I, IV		

Data is specified for +25°C unless otherwise stated

*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 R&TTE directive 1999/5/EC











For more information please contact your local Motorola Authorised Dealer or Distributor



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www.motorola.com

Motorola, Ltd. Jays Close, Viables Industrial Estate, Basingstoke, Hampshire, RG22 4PD, UK