GP680

One Radio. Endless Possibilities.

SPECIFICATION SHEET

MOTOROLA

KEY FEATURES

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

Adaptable and versatile
- Option board expandability
- Wideband and programmable channel spacing
- Easily programmed in the field to support additional features

Easy to use and set-up
- One touch dialling
- Programmable buttons for easy access to frequently used features
- Ruggedised design and compelling user interface
- Simple menus and alpha-numeric phonebook

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
- 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

The GP680, one of the market-leading radios in Motorola's Professional Series, is an effective feature-packed communication solution for any organisation on MPT networks. The intuitive menu with full keypad and display, together with one touch dialling and easy telephone interconnect, keeps users in touch to increase productivity.

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 57.5 x 40.0	
With Li-Ion battery	137 x 57.5 x 33.0	
Weight: (gm)		
With Standard high capacity NiMH battery	428	
With Ultra high capacity NiMH battery	508	
With NiCD battery	458	
With Li-Ion battery	358	
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	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	500.1	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: 300-350 MHz UHF1: 403-470 MHz
Channel Spacing	12.5/20/25 kHz
Frequency Stability (-25°C to +55°C, + 25°C Ref.)	±2.5 ppm
Power	136-174: 1-5W 300-350: 1-4W 403-470: 1-4W
Modulation Limiting	±2.5 @ 12.5 kHz ±4.0 @ 20 kHz ±5.0 @ 25 kHz
FM Hum & Noise	-40dB typical
Conducted/Radiated Emission	-36 dBm <1 GHz -30 dBm >1GHz
Adjacent Channel Power	-60 dB @ 12.5 kHz -70 dB @ 20/25 kHz
Audio Response (300-3000Hz)	+1 to -3 dB
Audio Distortion	3%

RECIEVER	
***Frequencies - Full Bandsplit**	VHF: 136-174 MHz UHF: 300-350 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	.25µV typical
Sensitivity (20 dB SINAD) EN	.50µV 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 @ 20/25 kHz
Audio Response (300-3000 Hz)	+1 to -3 dB
Conduncted 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.

MOTOROLA

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