Technical Specifications

General - VHF, UHF GP240 & GP280	
*Frequency:	136 - 174 / 403 - 470 / 800
Power Supply: (Provided through rechargeable battery)	7.5 V
Dimensions: $H \times W \times D$ (Radio footprint height excluding knobs) With Standard High Capacity NiMH Battery: With Vita High Capacity NIMH Battery: With NiCd Battery: With Lilon Battery:	137mm x 57.5mm x 37.5mm 137mm x 57.5mm x 40.0mm 137mm x 57.5mm x 40.0mm 137mm x 57.5mm x 33.0mm
Weight: With Standard High Capacity NiMH Battery: With Ultra High Capacity NiMH Battery: With NiCd Battery: With Lilon Battery:	420 gm 428 gm 508 gm 508 gm 450 gm 458 gm 350 gm 358 gm
Average Battery Life @5/5/90 Cycle: With Standard Capacity NiMH Battery: With Ultra High Capacity NiMH Battery: With NiCd Battery: With Lilon Battery:	Low Power High Power 11 hours 8 hours 14 hours 11 hours 12 hours 9 hours 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

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		

Transmitter				
All Specs Measured to TIA/EIA-603	VHF	UHF	800 MHz	
*Frequency (MHz):	136-174	403-470	806-825 851-870	
Frequency Separation:	Full Bandsplit			
Channel Spacing:	12.5/20/25 kHz		25 kHz	
Frequency Stability: (-30°C to +60°C, +25°C Ref.)	±2.5ppm ±1.5ppm		ppm	
Power:	1 - 5W	1 - 4W	1 - 2.5W	
Modulation Limiting:	±2.5 kHz @ 12.5 kHz ±4.0 kHz @ 20 kHz ±5.0 kHz @ 25 kHz			
FM Hum & Noise:	<-34 dB @ 12.5 kHz -40dB <-38 dB @ 20 kHz <-40 dB @ 25 kHz			
Conducted/Radiated Emission	-66 dBw < 1 GHz -66 dBw < 1 GHz -60 dBw > 1 GHz -60 dBw > 1 GHz			
Modulation FCC Type:	12.5 kHz 11K0F3E 25 kHz 16K0F3E			
Adjacent Channel Power:	-60 dBc @ 12.5 kHz -70 dBc -70 dBc @ 20/25 kHz			
Audio Response: (from 6dB/octave pre-emphasis, 300 - 3000Hz)	+1 to -3 dB			
Audio Distortion	3%			

Receiver			
All Specs Measured to TIA/EIA-603	VHF/UHF 800 MHz		
*Frequency (MHz):	136-174, 403-470, 851-870		
Frequency Separation:	Full Bandsplit		
Sensitivity (12dB SINAD)	0.25 _V		
Intermodulation:	-70 dB -65 dB		
Adjacent Channel Selectivity:	-60 dB @ 12.5 kHz -70 dB @ 20/25 kHz		
Spurious Rejection:	-70 dB		
Rated Audio: Audio Distortion:	0.5 W 3% typical		
Hum and Noise:	-34 dBm @ 12.5 kHz -37dB -38 dBm @ 20 kHz -40 dBm @ 25 kHz		
Conducted Spurious Emission:	-57dBm < 1 GHz -57 dB < 1 GHz -47dBm < 1 GHz -47 dB < 1 GHz		
All Rx Hum & Noise numbers assume low level expander is used			

* Availability subject to country law and regulations/Specifications subject to change without notice. All specifications shown are typical. Radios meet applicable regulatory requirements





ISO 9001 Standard

Compliance with ISO 9001 Standard - an international quality system assurance on design, development, production, installation and servicing of a product.

Radio meets applicable regulatory requirements to ETSI Euro norms and conforms to European directive 1999/5/EC

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GP240/280/RE/07/02 12.28-E

MOTOROLA







Motorola GP240 and GP280 Privacy Plus Trunked Radios for StartSite and SmartNet Systems

In today's dynamic environment, effective and instant communications are critical to the success of your business. Improve operational efficiency, health and safety and fine-tune the emergency response mechanism with the latest Privacy Plus trunked radios from Motorola.

This series comes in 2 models - the GP240 (non-keypad version) and the GP280 (full keypad version) based on the popular global Motorola Professional Series platform designed with the requirements of today's businesses and industries in mind.

Motorola Quality & Reliability

A market leader and innovator in the wireless communications business for over 70 years with good reason -The GP240 and GP280 come with Motorola's reliability and quality standards. Built to the exacting industry specifications of IP54 (environmental resistance) and MIL-STD 810, the stamp of approval from the U.S. Military for use in the most challenging environments. A Factory Mutual (FM) version is also available.

Designed to withstand robust industrial usage, Motorola GP240 and GP280 have also been subjected to Motorola's rigorous 5 year Accelerated Life Testing.

Enhanced features for today's StartSite and SmartNet users:

- Crisp and Clear Audio Quality
 Designed to be heard and understood even in the noisiest of
 industrial environments, the GP240 and GP280 feature strong
 audio quality and Low Level Expansion (LLE) to reduce noise
 in conversational pauses.
- Seamless Communications
 The Automatic Multiple Site Selection (AMSS) feature extends communications beyond the reach of a single trunked site.
 When moving between trunked sites, the radio will seamlessly switch to the next available site.
- Prevent Unauthorised Use Selective Radio Inhibit allows a radio to be blocked remotely should it be lost or stolen.
- User Flexibility
 Dual Mode Capability allows the user easy access to both the trunked system and conventional operation.
- Get the Message Regardless of mode (trunked or conventional), Talkgroup Scan lets the radio scan both talkgroups and channels for activity.
- Failsoft Operation
 In the unlikely event of an infrastructure problem, the radio will automatically revert to a pre-assigned conventional

GP240 Privacy Plus Trunked Radio



GP240 - Affordable and Easy to Use

Designed for professionals who need to keep in touch and enhance productivity:

- Meeting Your Communication Requirements
 The 16 talkgroups or channels allow the GP240 to meet many different communication needs.
- Multiple System Interoperability
 Offers the flexibility of access to up to 15 different talkgroups on up to 10 different systems if required.
- Quick and Easy Access
 Assign regularly used functions to the 4 Programmable Buttons.
- Avoid Downtime
 Low Battery Alert notifies users of low battery through the
 LED indicator and audible alert.

Call Flexibility

- Private Call Decode
 Users can receive a one-to-one call from another radio user without disturbing the team. Assures privacy when discussing sensitive issues.
- Call Alert Decode
 Missed call notification via a series of audible signals minimising disruption.
- Telephone Interconnect Receive an incoming telephone call through the trunked system for enhanced communication flexibility.

GP280 Privacy Plus Trunked radio



GP280 – Smart and Versatile

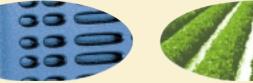
Building upon the features of the GP240, GP280 users benefit from the following increased functionality:

- Enhanced User Experience The Alpha-numeric and iconic display allows easy access to the intuitive menu and gives instant access to talkgroup identities, phone book and contact list. Along with a battery gauge icon, these are all features that make using the GP280 easy.
- Manage A Number of Workers
 90 modes keep a large number of diverse user talkgroups constantly in touch with each other.
- Discreet Communications
 Send and receive one-to-one radio calls through a preprogrammed contact list or via direct keypad entry.
- Missed Call Identity Displayed and supported by a series of audible signals.
- Telephone Interconnect
 Make and receive telephone calls through the trunked system for enhanced communication flexibility.



Motorola provides a complete two-way radio communication solution with a comprehensive selection of accessories: batteries, chargers, remote speaker microphones, earpieces,

headsets and carry cases. This extensive portfolio of Motorola original accessories allows users to customise further their Professional Radio and satisfy their individual communications needs above and beyond those already incorporated in the standard package.



voice channel



Accessories and Batteries

