### GP540, GP580 Professional series

### Specifications

GENERAL SPECIFICATIO	NS			Т
*Frequency 136 - 174 / 403 - 470 / 800 Power Supply				•• *
(Provided through recharge Dimensions: H x W x D	eable battery)	• • • • • • • • • • • • • • • • • • • •	7.5 V	
(Radio footprint height exc	luding knobs)			Ë
With Standard High				(-
Capacity NiMH Battery With Ultra High	137mm	x 57.5n		(-: P N
Capacity NiMH Battery	137mm	x 57.5n	nm x 40.0mm	
With NiCd Battery	137mm	137mm x 57.5mm x 40.0mm		
With Lilon Battery	137mm	x 57.5n	nm x 33.0mm	S
Weight With Standard High	GP5	40		 N
Capacity NiMH Battery With Ultra High	420 (	gm	428 gm	 A
Capacity NiMH Battery	508 9	gm	508 gm	
With NiCd Battery	450 (	gm	458 gm	Α
With Lilon Battery	350 (	gm	358 gm	(f
Average Battery Life				Α
@5/5/90 Cycle	Low Pov	ver	High Power	••
With Standard				_
Capacity NiMH Battery With Ultra High	11 ho	urs	8 hours	R
Capacity NiMH Battery	14 ho	urs	11 hours	*
With NiCd Battery	12 ho	urs	9 hours	S
With Li-Ion Battery	11 ho	urs	8 hours	S
Sealing V	Vithstands rain tes	ting per	MIL STD 810	A
		C	/D/E and IP54	
Shock and Vibration	Protection provide	ed via im	pact resistant	S
	housing exceeding	g MIL S	TD 810 C/D/E	S
***************************************			d TIA/EIA 603	Α
Dust and Humidity	Protection prov			
	resistant housin	-	ding MIL STD	Ċ
***************************************	810 (	C/D/E an	d TIA/EIA 603	

TRANSMITTER			
	VHF	UHF	800 MHz
*Frequency (MHz)	136-174	403-470	806-825
			851-870
Channel Spacing Frequency Stability	12.5/20/	/25 kHz	25 kHz
(-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 k	Hz ±5.0 k	Hz @ 25 kHz
FM Hum & Noise	-40	dB typical	
Spurious Harmonics	-36dBm	< 1GHz -3	86dBm typical
Conducted/Radiated Emission	-30 dBm	> 1GHz	
Modulation Type	12.	5 kHz 11K	0F3E
	25	kHz 16K0	F3E
Adjacent Channel Power	-60	dB @ 12.5	5 kHz
	-70	dB @ 20/2	5 kHz
Audio Response			
(from 6dB/octave pre-emphasis, 300 -	- 3000Hz)	+1 to -3 dl	В
Audio Distortion		3% typica	al

### RECEIVER

	VHF/UHF	800 MHz
*Frequency (MHz)	136-174, 403-470	851-870
Sensitivity (12dB SINAD)	0.35 μV typical	
Intermodulation EIA	-65 dB	
Adjacent Channel Selectivity	-60 dB @ 12.5 kHz	
	-70 dB @ 2	20/25 kHz
Spurious Rejection	-70 d	В
Rated Audio	0.5 V	V
Audio Distortion	3% typ	ical
Hum and Noise	-40 dB ty	/pical
Conducted Spurious Emission	-57dBm <	1 GHz
	-47 dBm >	· 1GHz

All Rx Hum & Noise numbers assume low level expander is used

### 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

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

### 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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GP540/580/BRO-ENG(03/07)

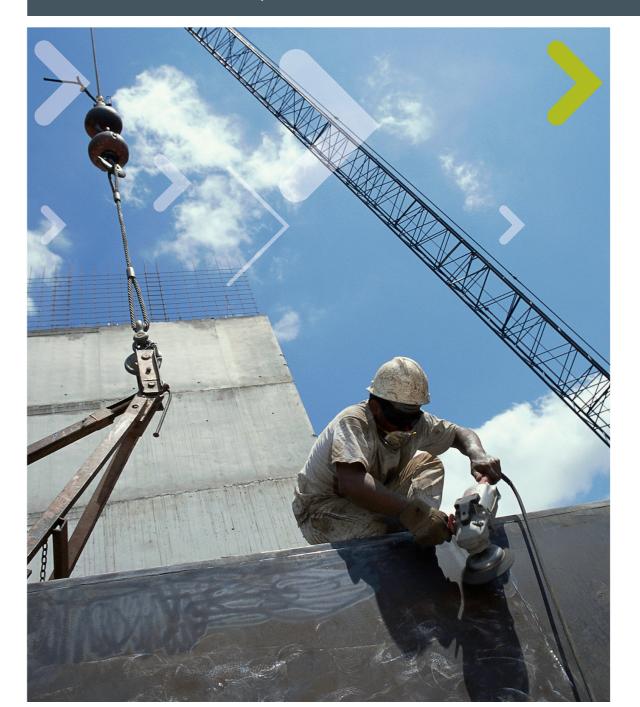
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# GP540, GP580 PROFESSIONAL SERIES

SmartZone™ Trunked Portable Radios as dedicated as you are









The GP SmartZone™ Trunked Radios offer sophisticated and effective communications; critical to the success of your dynamic organisation.

Improve your operational efficiency and manage communications complexity with SmartZone™ trunking technology from Motorola; giving you access to StartSite, SmartNet and SmartZone systems.

As one of the market-leading radios in Motorola's Professional Series; these fully-featured radios are designed with the requirements of today's businesses and public safety organisations in mind.

### Efficient and intelligent communications

SmartZone™ trunking technology from Motorola ensures spectrum efficiency whilst the dual mode capability allows the user easy access to conventional operation. These features combined with the failsoft mode keep you in touch when you need it most.

RSSI roaming extends reach beyond a single trunked site. When moving between trunked sites, the radio seamlessly switches to the strongest available signal. In trunked mode, Dynamic regrouping allows different talk groups to be amalgamated to create a temporary work group without taking radios out of service for reprogramming

**(** 

In addition to standard scanning, the GP540 and GP580 offer priority scan; the radio will switch to the talkgroup with the highest priority when activity is detected, regardless of mode

### Manage emergencies

An emergency alarm allows priority access to talkgroups and identifies the radio user who requires assistance. Emergency calls can be directed to specific talkgroups, sites or announcement groups. The radio can be programmed to transmit automatically allowing an emergency situation to be monitored remotely. Silent emergency mode disables all radio audio and visual indicators in sensitive circumstances.

### **Ensure privacy and maintain control**

SmartZone™ ensures communications remain private whilst selective radio inhibit allows a radio to be blocked remotely should it be lost or stolen. The remote monitor function lets authorised individuals listen to voice traffic, should a security or user issue be

Designed to be heard and understood even in the noisiest of industrial environments, the GP540 and GP580 feature strong audio quality and Low Level Expansion (LLE) to reduce noise in conversational

### Reliable and robust

Tested to MIL Spec 810 and Motorola Accelerated Life Test standards to ensure that they will operate in the toughest conditions

## Tailored to your needs

A wide range of mounting options and accessories enable you to tailor your communications solution to meet your own needs, including audio accessories, batteries, chargers and carry options. All radios are supplied with a battery, antenna, belt clip and dust cover as standard. For full details of available accessories please contact your local dealer.

# GP540 SmartZone™ Trunked Radio affordable and easy to use

in touch and improve productivity.

- meet many different communication needs.
- flexibility of access to up to 15 different talkgroups on up to 16 different systems if required.
- 4 programmable buttons for easy access to frequently used features.
- one-to-one call from another radio user without disturbing the team; assuring privacy when discussing sensitive issues.
- Call alert decode deilvers missed call notification via a series of audible signals to minimise disruption.
- Telephone linterconnect allows users to receive an incoming telephone call through the trunked system for enhanced communication flexibility.
- systems to deliver additional benefits.

covert use



Earpieces for discreet Impress chargers



Impress batteries



• DTMF

Headsets to communicate hands-free

GP580 SmartZone™

Trunked Radio smart

Designed for those requiring an enhanced

set of features; the GP580 builds upon the

• Enhanced user experience through an alpha-

numeric and iconic display allows easy access to

the intuitive menu and giving instant access to

talkgroup identities, phone book and contact list.

• One touch dialling gives speed-dial style access

• 250 modes keep a large number of diverse user

• Discreet communications allows users to send

preprogrammed contact list or via direct keypad

and receive one-to-one radio calls through a

entry. Eight statuses and 16 preprogrammed

• Missed call identity is displayed and supported

message options can be used when voice

communication is inappropriate.

by a series of audible signals.

talkgroups constantly in touch with each other, to

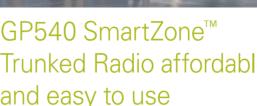
and versatile

functionality of the GP540.

to talkgroups or individuals.

easily manage users.





# Designed for professionals who need to keep

- 16 talkgroups or channels allow the GP540 to
- Multiple system interoperability offers the
- Private call decode enables users to receive a
- Compatible with MDC1200 conventional



