



UNRIVALED DATA CAPABILITIES TRANSFORM TWO-WAY RADIO BEYOND VOICE

MOTOTRBO™ DGP™8000/DGP™5000 SERIES DIGITAL TWO-WAY PORTABLE RADIOS



From the factory worker building components to the road crew making repairs, MOTOTRBO can transform your enterprise and make employee interactions smarter and safer.

Our best-in-class audio and unrivaled data capabilities empower people like never before.

Versatile and powerful, MOTOTRBO combines the best of two-way radio functionality with the latest digital technology. DGP™8000 / DGP™5000 Series radios integrate voice and data seamlessly, offer enhanced features that are easy to use, and deliver business-critical advantages like integrated Bluetooth® and Intelligent Audio.

The DGP™8000 / DGP™5000 Series can remaster your workplace and the way people collaborate to help you achieve even greater efficiency.

AUDIO BEYOND EXPECTATIONS

When it comes to exceptional audio clarity, the quality of digital can't be denied. DGP™8000 / DGP™5000 Series portables give you digital audio performance throughout your coverage area plus unique features to help your employees hear and speak clearly, wherever they work.

With Intelligent Audio, the radio volume automatically adjusts to compensate for background noise so workers don't have to adjust their radio volume to avoid missing a call in loud situations or disturb others when they move into quiet areas. Increased background noise suppression helps filter out unwanted external clamor – from heavy equipment to the roar of engines.

Bluetooth® audio is embedded right in the radio, so no adapter is needed when using wireless accessories. Also, IMPRES™ audio accessories enhance noise suppression and improve voice intelligibility for smarter accessories than they've ever experienced before.

INDUSTRY-LEADING DATA

Included in DGP™ 8000 and a premium feature of DGP[™] 5000, the integrated Bluetooth data allows busy work crews to send real time information back to the office rather than wait until the end of a shift, saving valuable hours and enabling better decision making. With DGP™ 8000's integrated GPS, you can track the location of your mobile work teams and text message them when voice communication isn't feasible. And the large, full-color, 5-line display operates in day or night mode, for easy viewing of contact lists, text messages and work order tickets even in bright sunlight.

MOTOTRBO's Application Developer Program offers customized data applications so you can adapt your radios to your business challenges. With the largest developer program in the industry, data applications help meet your objectives – from work order ticket management to telephony integration, and more.

HIGH-POWERED PERFORMANCE

Because MOTOTRBO uses TDMA digital technology, you get integrated voice and data, twice the calling capacity and clearer voice communications. When it comes to battery performance, MOTOTRBO radios operate up to 40 percent longer between recharges compared to analog.

RICH FUNCTIONALITY

DGP™8000 / DGP™5000 Series radios offer plenty of features businesses seek - including enhanced call signaling, basic and enhanced privacy-scrambling, option board expandability and the transmit interrupt suite to prioritize critical communication the moment you need it. Programmable button features appear on the display for easy viewing and guick access. And when workers can't be distracted, customizable voice announcement provides audible confirmation of channel and zone changes as well as programmable button features, eliminating the need to view the display.

EXPANDED CAPACITY AND COVERAGE

Your workforce is hard at work every day – picking up loads, making road repairs, providing security, responding to guest requests or restoring power after a storm.

As an included feature of DGP™ 8000 and a premium one of DGP™5000, IP Site Connect helps to dramatically improve customer service and productivity by using the Internet to extend coverage to create a wide area network, enhance single site coverage or link geographically dispersed locations. When you upgrade either the DGP™ 8000 or DGP™ 5000, you gain Capacity Plus -- the single-site trunking that expands capacity to over 1,000 users without having to add new frequencies. You also benefit from Linked Capacity Plus that combines the expanded capacity of Capacity Plus with the wide area coverage of IP site Connect, delivering a high capacity, wide area and cost effective multi-site trunking solution. So whether you want coverage at a single site or across multiple ones, MOTOTRBO can be scaled to your business and budget.

MIGRATE AT YOUR OWN PACE

Keeping operations running smoothly during a change in communication systems is vital to any business. It's easy to migrate to digital with DGP™8000 / DGP™5000 Series radios because they operate in analog and digital mode. To ease the transition even further, the dynamic mixed mode repeater functionality streamlines automatic switching between analog and digital calls. So you can begin using MOTOTRBO radios and repeaters on your existing analog system, and when your time and budget allow, move to digital at your own pace.

DAY-IN. DAY-OUT DURABILITY

DGP™8000 / DGP™5000 Series radios meet the most demanding specs, including IP57 for water submersibility and U.S. Military 810 C, D, E, F, & G standards for exceptional durability. The radio is also "intrinsically safe" when purchased and equipped with an intrinsically safe (FM) battery, for use in environments where flammable gas, vapors or combustible dust may be present. And are backed by a two-year Standard Warranty.



KEEP YOUR BUSINESS RUNNING SMOOTHLY WITH BUSINESS APPLICATIONS:



Location tracking:

Monitor the whereabouts of mobile workers so they can respond immediately; in an emergency, you can pinpoint security personnel and send the nearest to the scene



Integrated Bluetooth® for

sharing data wirelessly and instantly between devices



Dispatch consoles for centralized

communication



Email gateways to connect to email from your radio



Network monitoring

to maximize system utilization



Man-down applications so radios call for help when workers can't

Telephony for communication between radios and landline or mobile phones



Text messaging for quick and discreet communication



Work order tickets for faster customer response



DGP™8000 / DGP™5000 SERIES SPECIFICATIONS

GENERAL SPECIFICATIONS							
		DISPLAY	DGP™8550	NON DISPLAY DGP™8050			
		VHF	UHF	VHF	UHF		
Channel Capacity		10	100	32			
Frequency		136-174 MHz	136-174 MHz 403-527 MHz		403-527 MHz		
IMPRES Hi-Cap Li-ion 2150 mAH	(HxWxL)		inch / 1.62 inch 2 mm / 41.1 mm)	5.13 inch / 2.17 inch / 1.56 inch (130.3 mm / 55.2 mm / 39.6 mm)			
Battery (PMNN4409)	Weight	12.54 oz	(355.5 g)	11.39 oz (323 g)			
Slim IMPRES Li-ion 1500 mAH	(HxWxL)		inch / 1.41 inch 2 mm / 35.8 mm)	5.13 inch / 2.17 inch / 1.35 inch (130.3 mm / 55.2 mm / 34.3 mm)			
Battery (PMNN4407)	Weight	11.83 oz	(335.5 g)	10.69	oz (303 g)		
IMPRES Hi-Cap Li-ion FM	(HxWxL)		inch / 1.62 inch 2 mm / 41.1 mm)	5.13 inch / 2.17 inch / 1.56 inch (130.3 mm / 55.2 mm / 39.6 mm)			
2300 mAH Battery (NNTN8129)	Weight	12.89 oz	(365.5 g)	11.75 oz (333 g)			
Power Supply		7.5 V (Nominal)					
Operating Temperature		-30 ~ +60 °C1					
FCC Description		ABZ99FT3085	ABZ99FT3085 ABZ99FT4086		ABZ99FT4086		
IC Description		109AB-99FT3085	109AB-99FT4086	109AB-99FT3085	109AB-99FT4086		

BATTERY					
Average Battery Life 5/5/90 duty cycle with carrier squelch and transmitter in high power ²					
Slim IMPRES Li-ion 1500 mAh Battery	Analog: 7.7 hrs/ Digital: 11.3 hrs	Analog: 8 hrs/ Digital: 11.8 hrs			
IMPRES Hi-Cap Li-ion 2150 mAH Battery	Analog: 11.1 hrs/Digital: 16.2 hrs	Analog: 11.5 hrs/Digital: 17 hrs			
IMPRES Hi-Cap Li-ion FM 2300 mAH Battery	Analog: 11.9 hrs/Digital: 17.3 hrs	Analog: 12.3 hrs/Digital: 18.1 hrs			

RECEIVER				
	VHF	UHF		
Frequencies	136-174 MHz	403-527 MHz		
Channel Spacing	12.5/2	25kHz³		
Frequency Stability (-30°C, +60°C, +25°C Ref)	± .5	ppm		
Analog Sensitivity (12dB SINAD)	0.3uV (0.22	2uV typical)		
Digital Sensitivity	0.25 uV (0.19 uV typical)			
Intermodulation (TIA603D)	70 dB			
Adjacent Channel Selectivity (TIA603A)-1T	60dB @ 12.5 kHz / 70dB @ 25 kHz³			
Adjacent Channel Selectivity (TIA603D)-2T	45dB @ 12.5 kHz / 70dB @ 25 kHz³			
Spurious Rejection (TIA603D)	70 dB			
Rated Audio	0.5W			
Audio Distortion @ Rated Audio	5% (3% typical)			
Hum and Noise	-40dB @ 12.5 kHz / -45dB @ 25 kHz³			
Audio Response	TIA603D			
Conducted Spurious Emission (TIA603D)	-57dBm			

TRANSMITTER					
TRANSMITTER					
	VHF	UHF			
Frequencies	136-174 MHz	403-527 MHz			
Channel Spacing	12.5/2	25 kHz			
Frequency Stability	± 1.5 ppm				
Low Power Output	1W	1W			
High Power Output	5W	4VV			
Modulation Limiting	± 2.5kHz @ 12.5 kHz / ± 5.0kHz @ 25 kHz³				
FM Hum and Noise	-40dB@ 12.5 kHz / -45dB@ 25 kHz³				
Conducted/Radiated Emission	-36 dBm < 1GHz / -30 dBm > 1GHz				
Adjacent Channel Power	60dB @ 12.5 kHz / 70dB @ 25 kHz ³				
Audio Response	TIA603D				
Audio Distortion	3%				
	12.5 kHz Data: 7K60F1D & 7K60FXD				
4FSK Digital Modulation	12.5 kHz Voice: 7K60F1E & 7K60FXE				
	Combination of 12.5 kHz Voice & Data: 7K60F1W				
Digital Vocoder Type	AMBE+2™				
Digital Protocol	ETSI TS 102 361-1, -2, -3				



PRODUCT SPEC SHEET

MOTOTRBO™ DGP™8000/DGP™5000 SERIES PORTABLE RADIOS

GPS	
Accuracy specs are for long-term tracking (95t satellites visible at nominal -130 dBm signal str	
TTFF (Time To First Fix) - Cold Start	< 60 seconds
TTFF (Time To First Fix) - Hot Start	< 10 seconds
Horizontal Accuracy	< 5 meters

BLUETOOTH	
Version	Supports Bluetooth® 2.1 + EDR Specification
Range	Class 2, 10 meters

ENVIRONMENTAL SPECIFICATIONS						
Operating Temperature	-30° C / +60° C					
Storage Temperature	-40° C / +85° C					
Thermal Shock	Per MIL-STD					
Humidity	Per MIL-STD					
ESD	IEC 61000-4-2 Level 3					
Dust and Water Intrusion	IEC 60529 - IP57					
Packaging test	MIL-STD 810D and E					

Testing completed using portable radio with attached battery and antenna.

- ¹ Radio only Li-lon battery -10C
- ² Actual battery runtime observed may vary based on the use of certain features such as GPS, Bluetooth, and Expansion Card based applications.

Please contact your Motorola sales representative for battery runtime expectations based on your specific radio configuration.

³ 25kHz channel spacing available in

FACTORY MUTUAL APPROVALS

MOTOTRBO DGP $^{\rm IM}$ 8000 / DGP $^{\rm IM}$ 5000 Series portable radios have been certified by FM in accordance with U.S. Codes as intrinsically safe for use in Class I, II, III, Division 1, Groups C, D, E, F, G, when properly equipped with a Motorola FM approved battery option. They are also approved for use in Class I, Division 2, Groups A, B, C, D.

MILITARY STANDARDS										
	810C		810D		810E		810F		810G	
APPLICABLE MIL-STD	METHOD	PROCEDURES	METHOD	PROCEDURES	METHOD	PROCEDURES	METHOD	PROCEDURES	METHOD	PROCEDURES
Low Pressure	500.1	1	500.2	II	500.3	II	500.4	II	500.5	II
High Temperature	501.1	1, 11	501.2	I/A1,II/A1	501.3	I/A1,II/A1	501.4	I/Hot, II/Hot	501.5	I-A1, II
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	1, 11
Temperature Shock	503.1	-	503.2	I/A1/C3	503.3	I/A1/C3	503.4	ı	503.5	I-C
Solar Radiation	505.1	II	505.2	I	505.3	I	505.4	I	505.5	I-A1
Rain	506.1	Ι, ΙΙ	506.2	1, 11	506.3	I, II	506.4	I, III	506.5	I, III
Humidity	507.1	II	507.2	II	507.3	II	507.4	-	507.5	II
Salt fog	509.1	-	509.2	-	509.3	-	509.4	-	509.5	-
Dust	510.1	ı	510.2	I	510.3	I	510.4	I	510.5	I
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	II/5
Shock	516.2	I, II	516.3	I, IV	516.4	I, IV	516.5	I, IV	516.6	I, IV, VI

For more information on how to strengthen your portable voice, visit www.motorolasolutions.com/caribbean/mototrbo

Specifications subject to change without notice. All specifications shown are typical.

Radio meets applicable regulatory requirementes. Version 1 01/12





