



YOUR MOBILE VOICE JUST GOT STRONGER

MOTOTRBO™ XPR™ 5000 SERIES DIGITAL TWO-WAY MOBILE RADIOS

From the delivery driver crisscrossing the city to the sanitation crew clearing streets, MOTOTRBO™ can transform your enterprise and make employee interactions smarter and safer. Our best-in-class audio and exceptional data capabilities empower people like never before.

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

The XPR 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. With the XPR 5000 Series mobiles, you get digital quality 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 disturbing others when they move into quiet places. Increased background noise suppression filters out unwanted external clamor — from road traffic to the roar of engines.

Bluetooth® audio, embedded right in the radio, provides voice communication with exceptional clarity — giving your people the freedom to move without wires. Also, IMPRES™ audio accessories enhance noise suppression and improve voice intelligibility for smarter audio than they've ever experienced before.

INDUSTRY-LEADING DATA

XPR 5000 Series radios feature integrated GPS that enables location tracking of mobile work teams and text messaging to enable communication when voice isn't feasible, and the large, full-color display operates in day or night mode, for easy viewing of contact lists, text messages and work order tickets even in bright sunlight. These radios also feature integrated Bluetooth®, enabling the radio to wirelessly interface with Bluetooth®-enabled devices such as barcode scanners and magnetic card readers to facilitate the collection of critical information in the field.

MOTOTRBO's Application Developer program offers customized data applications that allow you to adapt your radios to your business challenges. With the industry's largest developer program, data applications answer 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. Also, the smart IMPRESTM technology in our high-powered accessories enables easier communications — everywhere your people travel.

RICH FUNCTIONALITY

XPR 5000 Series radios offer plenty of features your business seeks — including enhanced call signaling, basic and enhanced privacy-scrambling, option board expandability, the transmit interrupt suite to prioritize critical communication the moment you need it and compatibility with SCADA solutions for utility and public service monitoring and alarms. Programmable button features appear on the display for easy viewing and quick 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 work crews are on the go — picking up loads, dropping off cargo, repairing roads or restoring power after a storm. That's why you need the far-reaching performance of MOTOTRBO.

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. Capacity Plus single-site trunking expands capacity to over 1,000 users without adding new frequencies. Linked Capacity Plus leverages the high capacity of Capacity Plus, with the wide area coverage capabilities of IP Site Connect to keep your staff at up to 15 sites connected with an affordable wide area trunking solution. As your business grows, you can increase capacity, coverage and radio system capabilities with Connect Plus, the scalable single or multi-site digital trunking solution. So whether you want expanded coverage at a single site or across multiple ones, MOTOTRBO can be scaled to your needs.

MIGRATE AT YOUR OWN PACE

Keeping operations running smoothly during a change in communication systems is vital to business. It's easy to migrate to digital with XPR 5000 Series radios because they operate in analog and digital mode while 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

XPR 5000 Series mobile radios are backed by a two-year Standard Warranty, one-year Repair Service Advantage (U.S.)/Extended Warranty (Canada) and at least a one-year warranty for accessories.





XPR 5000 SERIES SPECIFICATIONS

GENER	AL SPECIFI	CATIONS									
			XPR 5550		XPR 5580		XPR 5350				
		VHF	UHF Band 1	UHF Band 2	800/900	VHF	UHF Band 1	UHF Band 2	800/900		
Channel Capacity		Up to 1,000	Up to 1,000	Up to 1,000	Up to 1,000	32	32	32	32		
	Low Power	1-25 W	1-25 W			1-25 W	1-25 W				
Typical RF Output	High Power	25-45 W	25-40 W	1-40 W	806-870 MHz: 10-35 W 896-941 MHz: 10-30 W	25-45 W	25-40 W	1-40 W	806-870 MHz: 10-35 W 896-941 MHz: 10-30 W		
Dimension	s (H x W x L)	2.1 x 6.9 x 8.1 in (53.3 x 175.3 x 205.7 mm)									
Weight		3.9 lbs (1.8 kg)									
Standby		0.81 A									
Maximum Current	Receive (Rated Audio)	2 A									
Drain	Transmit	1-25 W: 11.0 A 25-45 W: 14.5 A	1-25 W: 11.0 A 25-40 W: 14.5 A	1-25 W: 11.0 A 25-40 W: 14.5 A	12 A	1-25 W: 11.0 A 25-45 W: 14.5 A	1-25 W: 11.0 A 25-40 W: 14.5 A	1-25 W: 11.0 A 25-40 W: 14.5 A	12 A		
FCC Description		1-25 W: ABZ99FT3086	1-25 W: ABZ99FT4087	1-40 W:	AZ492FT5862	1-25 W: ABZ99FT3086	1-25 W: ABZ99FT4087	1-40 W: ABZ99FT4085	AZ492FT5862		
		25-45 W: ABZ99FT3087	25-40 W: ABZ99FT4088	ABZ99FT4085		25-45 W: ABZ99FT3087	25-40 W: ABZ99FT4088				
IC Description		1-25 W: 109AB-99FT3086	1-25 W: 109AB-99FT4087	1-40 W:	109U-92FT5862	1-25 W: 109AB-99FT3086	1-25 W: 109AB-99FT4087	1-40 W: 109AB-99FT4085	109U-92FT5862		
		25-45 W: 109AB-99FT3087	25-40 W: 109AB-99FT4088	109AB-99FT4085		25-45 W: 109AB-99FT3087	25-40 W: 109AB-99FT4088				

RECEIVER							
	VHF	UHF Band 1	UHF Band 2	800/900			
Frequencies	136-174 MHz	Hz 403-470 MHz 450-512 MH		851-870 MHz 935-941 MHz			
Channel Spacing		851-870 MHz 12.5/25 kHz* 935-941 MHz: 12.5 kHz					
Frequency Stability (-30°C, +60°C, +25°C Ref)	± 0.5 ppm						
Analog Sensitivity (12dB SINAD)	0.3 µV (12 dB SINAD) 0.22 µV (Typical, 12 dB SINAD) 0.4 uV (20 dB SINAD)						
Digital Sensitivity	5% BER @ 0.25uV (0.19uV typical)						
Intermodulation (TIA603D)		75 dB					
Adjacent Channel Selectivity (TIA603D)	50 dB @ 12.5 kHz 50 dB @ 12.5 kHz 80 dB @ 75 dB @ 25 kHz* 25 kHz*						
Spurious Rejection (TIA603D)	80 dB 75 dB						
Rated Audio	3 W (Internal), 7.5 W (External - 8 ohms) 13 W (External - 4 ohms)						
Audio Distortion @ Rated Audio	3% (typical)						
Hum and Noise	-40 dB @ 12.5 kHz/-45 dB @ 25 kHz*						
Audio Response	TIA603D						
Conducted Spurious Emission (TIA603D)	-57dBm						

TRANSMITTER						
	VHF	UHF Band 1	UHF Band 2	800/900		
Frequencies	136-174 MHz	403-470 MHz	450-512 MHz	806-870 MHz 896-941 MHz		
Channel Spacing		806-870 MHz 12.5/25 kHz* 896-941 MHz: 12.5 kHz				
Frequency Stability (-30°C, +60°C, +25°C Ref)	± 0.5 ppm					
Low Power Output	1-25 W					
High Power Output	25-45 W		1-40 W	806-870MHz 10-35W 896- 941MHz 10-30W		
Modulation Limiting	± 2.5 kHz @ 12.5 kHz/± 5.0 kHz @ 25 kHz*					
FM Hum and Noise	-40 dB @ 12.5 kHz/-45 dB @ 25 kHz*					
Conducted/Radiated Emission	-36 dBm < 1 GHz/-30 dBm > 1 GHz					
Adjacent Channel Power	60 dB @ 12.5 kHz/70 dB @ 25 kHz*					
Audio Response	TIA603D					
Audio Distortion	3%					
FM Modulation	12.5 kHz: 11K0F3E / 25 kHz*: 16K0F3E					
	12.5 kHz Data Only: 7K60F1D & 7K60FXD					
4FSK Digital Modulation	12.5 kHz	12.5 kHz Voice: 7K60F1E & 7K60FXE 7K60FXE				
	Combination o	N/A				
Digital Vocoder Type	AMBE+2 [™]					
Digital Protocol	ETSI TS 102 361-1, -2, -3					



PRODUCT SPEC SHEET

MOTOTRBO™ XPR 5000 SERIES MOBILE RADIOS

MILITARY STANDARDS										
	810C		810D		810E		810F		810G	
APPLICABLE MIL-STD	METHOD	PROCEDURES	METHOD	PROCEDURES	METHOD	PROCEDURES	METHOD	PROCEDURES	METHOD	PROCEDURES
Low Pressure	500.1	I	500.2	II	500.3	II	500.4	II	500.5	II
High Temperature	501.1	I, II	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	I/C3, II
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	I, II	506.2	1, 11	506.3	l, II	506.4	1, 111	506.5	I, III
Humidity	507.1	II	507.2	II	507.3	II	507.4	-	507.5	II - Aggravated
Salt fog	509.1	-	509.2	-	509.3	-	509.4	-	509.5	-
Dust	510.1	I	510.2	I	510.3	I	510.4	ı	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	1/24
Shock	516.2	1, 11	516.3	I, IV	516.4	I, IV	516.5	I, IV	516.6	I, IV, V, VI

CDC					
GPS					
Accuracy specs are for long-term tracking (95th percentile values > 5 satellites visible at a nominal -130 dBm signal strength)					
TTFF (Time To First Fix) <1 minute					
TTFF (Time To First Fix) Hot Start	< 10 seconds				
Horizontal Accuracy	< 5 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	IP54, MIL-STD				
Packaging test	MIL-STD 810C, D, E, F, and G				

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

Radio meets applicable regulatory requirements. Version 4 06/14

BLUETOOTH	
Version	Supports Bluetooth® 2.1 + EDR Specification
Profiles Supported	Bluetooth Headset Profile (HSP), Serial Port Profile (SPP), Motorola fast push-to-talk.
Devices Supported	Radio supports 1 Bluetooth audio accessory and 1 Bluetooth data device simultaneously
Range	Class 2, 10 meters

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

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MOTO**TRBO** DIGITAL REMASTERED.

