



# MOTOTRBO™ XPR™ 5000e SERIES

YOU'RE COMPLETELY CONNECTED



With this dynamic evolution of MOTOTRBO digital two-way radios, you're better connected, safer and more productive. The XPR 5000e Series is designed for the skilled professional who refuses to compromise. With high performance integrated voice and data, and advanced features for efficient operation, these next-generation radios deliver complete connectivity to your organization.

## CONNECTED

The MOTOTRBO XPR 5000e Series is a family of DMR-standard digital radios that delivers operations-critical voice and data communications. Bluetooth® audio lets you talk without wires, integrated Wi-Fi® enables remote software updates, and indoor and outdoor location-tracking capabilities give you total visibility of your resources. With support for trunking as well as legacy analog technology, you can keep your organization connected as it grows.

## SAFE

Safeguard your staff with responsive push-to-talk technology. The quick access buttons on XPR 5000e Series radios can summon help with one touch, using

Transmit Interrupt to clear a channel when necessary. A range of safe driving accessories allow your workers to communicate hands-free, and Text-to-Speech technology helps your drivers keep their eyes on the road.

## PRODUCTIVE

Text messaging and Work Order Ticketing simplify complex communications, and data capabilities support advanced applications. Featuring a high power audio amplifier, these radios deliver loud, clear speech, with background noise cancellation for better intelligibility. XPR 5000e Series radios are also ideal as a dispatch solution, with desktop microphones and a rugged, durable design for everyday use.

### WHAT'S NEW IN THESE NEXT GENERATION RADIOS

- Integrated Wi-Fi®
- Over-the-air software updates
- Bluetooth® 4.0
- Indoor location tracking

PRODUCT DATA SHEET  
MOTOTRBO™ XPR™ 5000e SERIES  
DIGITAL TWO-WAY RADIOS



	Alphanumeric Model				Numeric Model			
Model Number	XPR 5550e			XPR 5580e	XPR 5350e			XPR 5380e
Band	VHF	UHF Band 1	UHF Band 2	800/900	VHF	UHF Band 1	UHF Band 2	800/900
GENERAL SPECIFICATIONS								
Frequency	136-174 MHz	403-470 MHz	450-512 MHz	806-825 MHz, 851-870 MHz, 896-902 MHz, 935-941 MHz	136-174 MHz	403-470 MHz	450-512 MHz	806-825 MHz, 851-870 MHz, 896-902 MHz, 935-941 MHz
Low Power Output	1-25 W	1-25 W	—	—	1-25 W	1-25 W	—	—
High Power Output	25-45 W	25-40 W	1-40 W	10-35 W (800) 10-30 W (900)	25-45 W	25-40 W	1-40 W	10-35 W (800) 10-30 W (900)
Channel Spacing	12.5, 25* kHz							
Channel Capacity	1000				32			
Dimensions (H x W x D)	2.1 x 6.9 x 8.1 in (53 x 175 x 206 mm)							
Weight	3.9 lb (1.8 kg)							
FCC Description (Low Power)	AZ492FT7082	AZ492FT7080	—	—	AZ492FT7082	AZ492FT7080	—	—
FCC Description (High Power)	ABZ99FT3087	AZ492FT7079	AZ492FT7076	AZ492FT7083	AZ492FT7081	AZ492FT7079	AZ492FT7076	AZ492FT7083
IC Description (Low Power)	109U-92FT7082	109U-92FT7080	—	—	109U-92FT7082	109U-92FT7080	—	—
IC Description (High Power)	109U-92FT7080	109U-92FT7079	109U-92FT7076	109U-92FT7083	109U-92FT7081	109U-92FT7079	109U-92FT7076	109U-92FT7083
Power Supply (Nominal)	12 V							
Max Current Drain, Standby	0.8 A							
Max Current Drain, Receive	2 A							
Transmit Current Draw, Low Power	11 A							
Transmit Current Draw, High Power	14.5 A	14.5 A	14.5 A	12 A	14.5 A	14.5 A	14.5 A	12 A



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DIGITAL TWO-WAY RADIOS

ALL MODELS

TRANSMITTER SPECIFICATIONS	
Channel Spacing	12.5, 25* kHz
4FSK Digital Modulation	12.5 kHz Data: 7K60F1D and 7K60FXD, 12.5 kHz Voice: 7K60F1E and 7K60FXE, Combination of 12.5 kHz Voice and Data: 7K60F1W
Digital Protocol	ETSI TS 102 361**
Conducted/Radiated Emissions (TIA603D)	-36 dBm < 1 GHz, -30 dBm > 1 GHz
Adjacent Channel Power	60 dB (12.5 kHz channel), 70 dB (25* kHz channel)
Frequency Stability	± 0.5 ppm
RECEIVER SPECIFICATIONS	
Analog Sensitivity (12dB SINAD)	0.22 uV
Digital Sensitivity (5% BER)	0.19 uV
Intermodulation (TIA603D)	70 dB
Adjacent Channel Selectivity, (TIA603A)-1T	60 dB (12.5 kHz channel), 70 dB (25* kHz channel)
Adjacent Channel Selectivity, (TIA603D)-2T	45 dB (12.5 kHz channel), 70 dB (25* kHz channel)
Spurious Rejection (TIA603D)	70 dB
AUDIO SPECIFICATIONS	
Digital Vocoder Type	AMBE+2™
Audio Response	TIA603D
Rated Audio	3 W (internal speaker) 7.5 W (external 8 ohm speaker) 13 W (external 4 ohm speaker)
Audio Distortion at Rated Audio	3%
Hum and Noise	-40 dB (12.5 kHz channel), -45 dB (25* kHz channel)
Conducted Spurious Emissions (TIA603D)	-57 dBm

NOTES  
\*25 kHz channels not available in USA  
\*\*DMR Operation Mode | Tier II / III  
Specifications are subject to change without notice. All specifications shown are typical values

BLUETOOTH SPECIFICATIONS	
Version	4.0
Range	Class 2, 33 ft (10 m)
Supported Profiles	Bluetooth Headset Profile (HSP), Serial Port Profile (SPP), Motorola fast push-to-talk.
Simultaneous Connections	1 x audio accessory and 1 x data device
Permanent Discoverable Mode	Optional
GNSS SPECIFICATIONS	
Constellation Support	GPS
Time To First Fix, Cold Start	< 60 s
Time To First Fix, Hot Start	< 10 s
Horizontal Accuracy	<16.5 ft (< 5 m)
Wi-Fi SPECIFICATIONS	
Standards Supported	IEEE 802.11b, 802.11g, 802.11n
Security Protocol Supported	WPA, WPA-2, WEP
Maximum Number of SSIDs	128 (64 for Numeric Models)
ENVIRONMENTAL SPECIFICATIONS	
Operating Temperature	-22 °F to 140 °F (-30 °C to +60 °C)
Storage Temperature	-40 °F to 185 °F (-40 °C to +85 °C)
Electrostatic Discharge	IEC 61000-4-2 Level 4
Dust and Water Intrusion	IEC 60529 - IP54
Packaging Test	MIL-STD 810C, D, E, F, and G

- CONNECTION**
- VHF Band, 45 W
  - UHF Band, 40 W
  - 800/900 Band, 30 W
  - 45, 40, 30 W Transmit Power
  - Alphanumeric Model: Color Screen, 1000 Channels
  - Numeric Model: Numeric Display, 32 Channels
  - Analog and Digital
  - Voice and Data
    - Integrated Wi-Fi
  - Canned Text Messaging
  - Freeform Text Messaging (Requires Keypad Mic)
    - Work Order Ticketing
    - Indoor Location-Tracking
  - Event-Driven Location Update
  - Bluetooth Audio and Data
  - Voice Announcement
    - Text to Speech
  - Option Board
  - Home Channel Reminder

- AUDIO**
- Intelligent Audio
  - IMPRES Audio
  - Acoustic Feedback Suppressor
  - Microphone Distortion Control
  - User-Selectable Audio Profiles
  - Trill Enhancement

- PERSONALIZATION**
- Wide Range of Accessories
  - 4 Programmable Buttons

- MANAGEMENT**
- Radio Management
  - Over-the-Air Software Update

- SAFETY**
- Lone Worker
  - Basic Privacy
  - Enhanced Privacy
  - Transmit Interrupt
  - Digital Emergency
  - Emergency Search Tone
  - Remote Monitor
  - Radio Disable / Enable
  - Waterproof to IP54
  - Rugged to MIL-STD 810

- SYSTEMS**
- Dual Capacity Direct Mode
  - Conventional
  - [IP Site Connect](#)
  - [Capacity Plus \(Single and Multi-site\)](#)
  - [Capacity Max](#)
  - [Connect Plus](#)

◦ Optional

MILITARY STANDARDS										
	MIL-STD 810C		MIL-STD 810D		MIL-STD 810E		MIL-STD 810F		MIL-STD 810G	
	METHOD	PROCEDURE	METHOD	PROCEDURE	METHOD	PROCEDURE	METHOD	PROCEDURE	METHOD	PROCEDURE
Low Pressure	500.1	I	500.2	II	500.3	II	500.4	II	500.5	II
High Temp	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/A1
Low Temp	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/C1
Temp Shock	503.1	I	503.2	A1/C3	503.3	A1/C3	503.4	I	503.5	I-C
Solar Radiation	505.1	II	505.2	I/Hot-Dry	505.3	I/Hot-Dry	505.4	I/Hot-Dry	505.5	I/A1
Rain	506.1	I, II	506.2	I, II	506.3	I, II	506.4	I, III	506.5	I, III
Humidity	507.1	II	507.2	II/Hot-Humid	507.3	II/Hot-Humid	507.4	-	507.5	I/Hot-Humid
Salt Fog	509.1	I	509.2	I	509.3	I	509.4	-	509.5	-
Dust	510.1	I, II	510.2	I, II	510.3	I, II	510.4	I, II	510.5	I, II
Vibration	514.2	VIII/CatF/ CurveW, XI	514.3	I/Cat10, II/ Cat3	514.4	I/Cat10, III/ Cat3	514.5	I/Cat24, II/ Cat5	514.6	I/Cat24, II/ Cat5
Shock	516.2	I, II	516.3	I, IV	516.4	I, IV	516.5	I, IV	516.6	I, V, VI

### LONG RANGE WIRELESS MOBILE MICROPHONE

Designed for customers who depend on their high power mobile radio but must work outside of their vehicle, the Long Range Wireless Mobile Microphone keeps you connected and communicating up to 330 ft (100 m) from your vehicle. With instant touch pairing and in-vehicle charging cradles, you can maintain critical communications even on remote job sites.



### HANDHELD CONTROL HEAD

When space is tight, and you need the flexibility to operate your radio from anywhere in the vehicle, opt for the Handheld Control Head. Its color screen, full keypad and extendable cord gives you complete control within 8 m (26 ft) of the radio.



### BLUETOOTH AUDIO

Improve the mobility of your work teams without wires getting tangled. Your delivery driver can sort through packages on the back of the delivery truck, your bus driver can check students in the back of the bus, and your limousine driver can open the door for their passengers and stay connected.



### CONNECT AND COORDINATE EFFORTLESSLY

IMPRES™ Smart Audio accessories communicate with the radio to suppress ambient noise, improve voice intelligibility and amplify loudness. Choose from a range of standard and heavy duty microphones, with or without keypads and navigation buttons.



### INTERACT SAFELY WITHOUT DISTRACTIONS

To help your drivers keep their eyes on the road, you can customize your installation with the IMPRES Visor Microphone and Remote Push-to-Talk.



For more details on XPR 5000e accessories, please download the [MOTOTRBO Professional Accessories Catalog](#).

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DIGITAL REMASTERED.