

# MOTOTRBO™ XPR™ 3000e SERIES

YOU'RE MORE PRODUCTIVE, CONNECTED.

With this dynamic evolution of MOTOTRBO digital two-way radios, you're better connected, safer and more efficient. The XPR 3000e Series is designed for the everyday worker who needs effective communications. With systems support and loud, clear audio, these next-generation radios deliver cost-effective connectivity to your organization.

## CONNECTED

The MOTOTRBO XPR 3000e Series is a family of DMR-standard digital radios that delivers operations-critical voice communications. Bluetooth® audio lets you talk without wires and integrated Wi-Fi® enables remote software updates, giving you complete control of your radio fleet. With support for basic trunking as well as legacy analog technology, you can keep your organization connected as it grows.

## SAFE

The XPR 3000e Series is designed to enhanced safety in your organization, with the rapid response capability of instant push-to-talk communications. Even if a worker is unresponsive, you can remotely activate the radio to check status ensuring your worker is safe. Privacy options are available to protect your communications, and radios can be remotely disabled if they are misplaced. New HazLoc models are available for use in areas where flammable or explosive materials are present.

## EFFICIENT

With new noise cancellation technology and improved clarity, the XPR 3000e Series delivers excellent audio quality to make your workplace communications clearly intelligible. The latest energy technology delivers up to 28.5 hours of battery life for 3-shift working, and the optional IMPRES Over-the-Air Battery Management tool helps you maximize battery lifetime. An improved receiver boosts range by up to 8%, allowing you to reach further than ever.



## NEXT GENERATION FEATURES

- Integrated Wi-Fi®
- Over-the-air software updates
- Bluetooth® 4.0
- Enhanced audio quality
- Improved expandability
- Better battery life (up to 28.5 hours)
- Better range (up to 8%)
- Better waterproofing (IP67)
- HazLoc models available



## GENERAL SPECIFICATIONS

|  | LIMITED KEYPAD (LKP) MODEL               |               | NO KEYPAD (NKP) MODEL |               |
|--|--|---------------|-----------------------|---------------|
| Model Number   | XPR 3500e                                |               | XPR 3300e             |               |
| Band   | VHF                                      | UHF           | VHF                   | UHF           |
| Frequency  | 136-174 MHz                              | 403-512 MHz   | 136-174 MHz           | 403-512 MHz   |
| High Power Output  | 5 W                                      | 4 W           | 5 W                   | 4 W           |
| Low Power Output   | 1 W                                      | 1 W           | 1 W                   | 1 W           |
| Channel Spacing  | 12.5, 25* kHz                            |               |                       |               |
| Channel Capacity   | 128                                      |               | 16                    |               |
| Dimensions (H x W x D),<br>Radio + Standard Battery                            | 4.8 x 2.2 x 1.4 in<br>(122 x 56 x 36 mm) |               |                       |               |
| Weight, Radio + Standard Battery   | 10 oz (281 g)                            |               | 9 oz (264 g)          |               |
| Dimensions (H x W x D),<br>Radio + High Capacity Battery                       | 4.8 x 2.2 x 1.7 in<br>(122 x 56 x 42 mm) |               |                       |               |
| Weight, Radio + High Capacity Battery  | 11 oz (309 g)                            |               | 10 oz (292 g)         |               |
| FCC Description  | AZ489FT7069                              | AZ489FT7068   | AZ489FT7069           | AZ489FT7068   |
| IC Description   | 109U-89FT7069                            | 109U-89FT7068 | 109U-89FT7069         | 109U-89FT7068 |
| Digital / Analog Battery Life <sup>1</sup> ,<br>Standard 2100 mAh Battery      | 19.5 / 14.0                              | 18.5 / 14.0   | 19.5 / 14.0           | 18.5 / 14.0   |
| Digital / Analog Battery Life <sup>1</sup> ,<br>High Capacity 3000 mAh Battery | 28.5 / 21.0                              | 27.5 / 21.0   | 28.5 / 21.0           | 27.5 / 21.0   |
| Power Supply (Nominal)   | 7.5 V                                    |               |                       |               |



## TRANSMITTER SPECIFICATIONS

|   |   |
|---|---|
| 4FSK Digital Modulation                   | 12.5 kHz Data: 7K60F1D and 7K60FXD,<br>12.5 kHz Voice: 7K60F1E and 7K60FXE,<br>Combination of 12.5 kHz Voice and<br>Data: 7K60F1W |
| Digital Protocol                          | ETSI TS 102 361-1, -2, -3   |
| Conducted/Radiated Emissions<br>(TIA603D) | -36 dBm < 1GHz, -30 dBm > 1GHz  |
| Adjacent Channel Power                    | 60dB (12.5 kHz channel),<br>70dB (25* kHz channel)  |
| Frequency Stability                       | ± 0.5 ppm   |

## RECEIVER SPECIFICATIONS

|   |  |
|---|--|
| Analog Sensitivity (12dB SINAD)               | 0.16 uV  |
| Digital Sensitivity (5% BER)                  | 0.14 uV  |
| Intermodulation (TIA603D)                     | 70 dB  |
| Adjacent Channel Selectivity,<br>(TIA603A)-1T | 60 dB (12.5 kHz channel),<br>70 dB (25* kHz channel) |
| Adjacent Channel Selectivity,<br>(TIA603D)-2T | 45 dB (12.5 kHz channel),<br>70 dB (25* kHz channel) |
| Spurious Rejection (TIA603D)                  | 70 dB  |

## BLUETOOTH SPECIFICATIONS<sup>1</sup>

|                             |   |
|-----------------------------|---|
| Version                     | 4.0   |
| Range                       | Class 2, 33 ft (10 m)   |
| Supported Profiles          | Bluetooth Headset Profile (HSP),<br>Serial Port Profile (SPP), Motorola fast<br>push-to-talk. |
| Simultaneous Connections    | 1 x audio accessory   |
| Permanent Discoverable Mode | Optional  |

## AUDIO SPECIFICATIONS

|   |  |
|---|--|
| Digital Vocoder Type                      | AMBE+2™  |
| Audio Response                            | TIA603D  |
| Rated Audio                               | 0.5 W  |
| Audio Distortion at Rated Audio           | 3%   |
| Hum and Noise                             | -40 dB (12.5 kHz channel),<br>-45 dB (25* kHz channel) |
| Conducted Spurious Emissions<br>(TIA603D) | -57 dBm  |

## WI-FI SPECIFICATIONS

|                             |                                |
|-----------------------------|--------------------------------|
| Standards Supported         | IEEE 802.11b, 802.11g, 802.11n |
| Security Protocol Supported | WPA, WPA-2, WEP                |
| Maximum Number of SSIDs     | 64                             |

## ENVIRONMENTAL SPECIFICATIONS

|                                    |   |
|------------------------------------|---|
| Operating Temperature <sup>2</sup> | -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 - IP67, 3.3 ft (1m) for 30 mins |
| Packaging Test                     | MIL-STD 810D and E                        |

## HAZLOC CERTIFICATION

When properly equipped with Motorola UL-Approved battery, XPR 3000e Series radios are UL-Approved to TIA-4950 for use in Hazardous Locations, Division 1, Class I, II, III, Groups C,D,E, F, G; Division 2, Class 1, Groups A,B,C,D, T3C. Tamb = -25°C to +60 °C.

### NOTES

1: Typical battery life, 5/5/90 profile at maximum transmitter power with Wi-Fi and applications disabled. Actual observed runtimes may vary.

2: Radio only. Specialized low-temperature battery required for operation below 14 °F (-10 °C)

3: Please check for availability of Bluetooth functionality.

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

\*25 kHz channels not available in USA.

## CONNECTION

- VHF Band, 5 W
- UHF Band, 4 W
- LKP Models: Mono screen, limited keypad, 128 channels
- NKP Models: No screen or keypad, 16 channels
- Analog and Digital
- Voice and text only
- Integrated Wi-Fi
- Bluetooth Audio<sup>3</sup>
- Canned Text Messaging
- Voice Announcement
- Home Channel Reminder

## AUDIO

- Intelligent Audio
- IMPRES Audio
- SINC+ Noise Cancellation
- Acoustic Feedback Suppressor
- User-Selectable Audio Profiles
- Trill Enhancement
- Switch Speaker

## CUSTOMIZATION

- Wide range of Accessories
- Slim GCAI Connector
- 4 Programmable Buttons (LKP)
- 2 Programmable Buttons (NKP)

## MANAGEMENT

- Radio Management
- Over-the-Air Programming
- Over-the-Air Software Update
- IMPRES Energy
- IMPRES Battery Management
- Over-the-Air Battery Management
- Switch Speaker

## SYSTEMS

- Dual Capacity Direct Mode
- Conventional
- IP Site Connect
- Capacity Plus Single/Multi Site

## SAFETY

- Lone Worker
- Basic Privacy
- Enhanced Privacy
- Transmit Interrupt (Decode)
- Transmit Interrupt (Encode)
- Digital Emergency
- Emergency Search Tone
- Remote Monitor (Decode)
- Radio Disable / Enable (Decode)
- HazLoc certification
- Waterproof to IP67
- Rugged to MIL-STD 810

◦ 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        | I/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        | II/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/F, W, XI | 514.3        | I/10, II/3   | 514.4        | I/10, II/3   | 514.5        | I/24, II/5    | 514.6        | I/24, II/5   |
| Shock           | 516.2        | II            | 516.3        | I, IV        | 516.4        | I, IV        | 516.5        | I, IV         | 516.6        | I, IV        |

To get connected with MOTOTRBO, please contact your local Motorola representative or visit [motorolasolutions.com/MOTOTRBO](https://motorolasolutions.com/MOTOTRBO)



Recommended Dealer: **HKRSolutions**  
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