With this dynamic evolution of MOTOTRBO digital two-way radios, you’re better connected, safer and more efficient. The XiR P6600i 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 organisation.

**CONNECTED**
The MOTOTRBO XiR P6600i Series is a family of DMR-standard digital radios that delivers operations-critical voice communications. With support for basic trunking as well as legacy analogue technology, you can keep your organisation connected as it grows.

**SAFE**
The XiR P6600i Series is designed to improve safety in your organisation, 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 that your worker is safe. 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 enhanced clarity, the XiR P6600i Series delivers excellent audio quality to make your workplace communications clearly intelligible. The latest energy technology provides the battery option which delivers up to 28 hours of battery life for 3-shift working, and the optional IMPRES Over-the-Air Battery Management tool helps you maximise battery lifetime. An improved receiver boosts range, allowing you to reach further than ever.

**WHAT’S NEW IN THESE NEXT GENERATION RADIOS**
- Over-the-air software updates
- Enhanced audio quality
- Improved expandability
- Better battery life (up to 28 hours)
- Better range
- Better waterproofing (IP67)
- HazLoc models available
## Limited Keypad (LKP) Model

<table>
<thead>
<tr>
<th>Model Number</th>
<th>XiR P6620i</th>
</tr>
</thead>
<tbody>
<tr>
<td>Band</td>
<td>VHF</td>
</tr>
<tr>
<td>Frequency</td>
<td>136-174 MHz</td>
</tr>
<tr>
<td>High Power Output</td>
<td>5 W</td>
</tr>
<tr>
<td>Low Power Output</td>
<td>1 W</td>
</tr>
<tr>
<td>Channel Spacing</td>
<td>12.5, 25 kHz</td>
</tr>
<tr>
<td>Dimensions (H x W x D), Radio + Standard 1600 mAh Battery</td>
<td>122 x 56 x 36 mm</td>
</tr>
<tr>
<td>Weight, Radio + Standard 1600 mAh Battery</td>
<td>281 g</td>
</tr>
<tr>
<td>Dimensions (H x W x D), Radio + Slim 2050 mAh Battery</td>
<td>122 x 56 x 36 mm</td>
</tr>
<tr>
<td>Weight, Radio + Slim 2050 mAh Battery</td>
<td>287 g</td>
</tr>
<tr>
<td>Dimensions (H x W x D), Radio + High Capacity 3000 mAh Battery</td>
<td>122 x 56 x 42 mm</td>
</tr>
<tr>
<td>Weight, Radio + High Capacity 3000 mAh Battery</td>
<td>309 g</td>
</tr>
<tr>
<td>Digital / Analogue Battery Life, Standard 1600 mAh Battery</td>
<td>16.0 / 11.5 hrs</td>
</tr>
<tr>
<td>Digital / Analogue Battery Life, Slim 2050 mAh Battery</td>
<td>19.5 / 14 hrs</td>
</tr>
<tr>
<td>Digital / Analogue Battery Life, High Capacity 3000 mAh Battery</td>
<td>28.5 / 21 hrs</td>
</tr>
<tr>
<td>Power Supply (Nominal)</td>
<td>7.5 V</td>
</tr>
</tbody>
</table>

## No Keypad (NKP) Model

<table>
<thead>
<tr>
<th>Model Number</th>
<th>XiR P6600i</th>
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</thead>
<tbody>
<tr>
<td>Band</td>
<td>UHF</td>
</tr>
<tr>
<td>Frequency</td>
<td>350-400 MHz</td>
</tr>
<tr>
<td>High Power Output</td>
<td>4 W</td>
</tr>
<tr>
<td>Low Power Output</td>
<td>1 W</td>
</tr>
<tr>
<td>Channel Spacing</td>
<td>12.5, 25 kHz</td>
</tr>
<tr>
<td>Dimensions (H x W x D), Radio + Standard 1600 mAh Battery</td>
<td>122 x 56 x 36 mm</td>
</tr>
<tr>
<td>Weight, Radio + Standard 1600 mAh Battery</td>
<td>284 g</td>
</tr>
<tr>
<td>Dimensions (H x W x D), Radio + Slim 2050 mAh Battery</td>
<td>122 x 56 x 36 mm</td>
</tr>
<tr>
<td>Weight, Radio + Slim 2050 mAh Battery</td>
<td>270 g</td>
</tr>
<tr>
<td>Dimensions (H x W x D), Radio + High Capacity 3000 mAh Battery</td>
<td>122 x 56 x 42 mm</td>
</tr>
<tr>
<td>Weight, Radio + High Capacity 3000 mAh Battery</td>
<td>292 g</td>
</tr>
<tr>
<td>Digital / Analogue Battery Life, Standard 1600 mAh Battery</td>
<td>15.0 / 11.5 hrs</td>
</tr>
<tr>
<td>Digital / Analogue Battery Life, Slim 2050 mAh Battery</td>
<td>18.5 / 14 hrs</td>
</tr>
<tr>
<td>Digital / Analogue Battery Life, High Capacity 3000 mAh Battery</td>
<td>27.5 / 21 hrs</td>
</tr>
</tbody>
</table>
TRANSMITTER SPECIFICATIONS

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 102 361-1, -2, -3

Conducted/Radiated Emissions (TIA603D)
-36 dBm < 1GHz, -30 dBm > 1GHz

Adjacent Channel Power
60dB (12.5 kHz channel), 70dB (25 kHz channel)

Frequency Stability
± 0.5 ppm

RECEIVER SPECIFICATIONS

Analogue Sensitivity (12dB SINAD)
0.16 uV

Digital Sensitivity (5% BER)
0.14 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
0.5 W

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

ENVIRONMENTAL SPECIFICATIONS

Operating Temperature
2 °C to +60 °C

Storage Temperature
-40 °C to +85 °C

Electrostatic Discharge
IEC 61000-4-2 Level 4

Dust and Water Intrusion
IEC 60529 - IP67

Packaging Test
MIL-STD 810D and E

HAZLOC CERTIFICATION

XiR P6600i 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 when properly equipped with Motorola UL-Approved battery.

MILITARY STANDARDS

<table>
<thead>
<tr>
<th></th>
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<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>METHOD</td>
<td>PROCEDURE</td>
<td>METHOD</td>
<td>PROCEDURE</td>
<td>METHOD</td>
</tr>
<tr>
<td>Low Pressure</td>
<td>500.1</td>
<td>I</td>
<td>500.2</td>
<td>II</td>
</tr>
<tr>
<td>High Temp</td>
<td>501.1</td>
<td>I, II</td>
<td>501.2</td>
<td>I/A1, II/A1</td>
</tr>
<tr>
<td>Low Temp</td>
<td>502.1</td>
<td>I</td>
<td>502.2</td>
<td>I/C3, II/C1</td>
</tr>
<tr>
<td>Temp Shock</td>
<td>503.1</td>
<td>I</td>
<td>503.2</td>
<td>A1/C3</td>
</tr>
<tr>
<td>Solar Radiation</td>
<td>505.1</td>
<td>II</td>
<td>505.2</td>
<td>I/Hot-Dry</td>
</tr>
<tr>
<td>Rain</td>
<td>506.1</td>
<td>I, II</td>
<td>506.2</td>
<td>I, II</td>
</tr>
<tr>
<td>Humidity</td>
<td>507.1</td>
<td>I</td>
<td>507.2</td>
<td>I/Hot-Humid</td>
</tr>
<tr>
<td>Salt Fog</td>
<td>508.1</td>
<td>I</td>
<td>509.2</td>
<td>I</td>
</tr>
<tr>
<td>Dust</td>
<td>510.1</td>
<td>I, II</td>
<td>510.2</td>
<td>I, II</td>
</tr>
<tr>
<td>Vibration</td>
<td>512.1</td>
<td>VIII/F, W, XI</td>
<td>514.3</td>
<td>I/10, II/C3</td>
</tr>
<tr>
<td>Shock</td>
<td>518.2</td>
<td>II</td>
<td>516.3</td>
<td>I, IV</td>
</tr>
</tbody>
</table>

NOTES

1 Typical battery life, 5/5/90 profile at maximum transmitter power. Actual observed runtimes may vary.

2 Specialized low-temperature battery required for operation below -10 °C

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

CONNECTION

- VHF Band, 5 W
- UHF Band, 4 W
- 350 Band, 4 W
- LKP Models: Mono screen, limited keypad, 256 channels
- NKp Models: No screen or keypad, 16 channels
- Analogue and Digital
- Voice and text only
- 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

CUSTOMISATION

- Wide range of Accessories
- 4 Programmable Buttons (2 for NKp model)

MANAGEMENT

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

SAFETY

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

SYSTEMS

- Dual Capacity Direct Mode
- Conventional
- IP Site Connect
- Capacity Plus

Optional

PAGE 3
REMOTE SPEAKER MICROPHONES
Improve usability with a Remote Speaker Microphone (RSM). Choose from standard, heavy duty and noise-cancelling models, with or without secondary earpiece connector.

ENERGY SOLUTIONS
Make sure your radio is powered and charged properly, with our range of energy solutions. Choose from single and multi-unit chargers, and slim and high capacity batteries.

CARRY SOLUTIONS
However you choose to wear or carry your radio, we have a solution for you. From leather cases to belts and belt clips to bags, straps and pouches.

HEADSETS
In a noisy workplace, you need to protect your workers’ hearing. Whether it’s heavy duty noise reduction or innovative temple transducer technology, our headsets can help.

COVERT ACCESSORIES
When you need to stay in touch discreetly, choose from our range of covert audio accessories. From clear tube earpieces to virtually invisible wireless in-ear units.

VIBRATING BELTCLIP
When it’s unacceptable to miss calls in a noisy environment, equip your radios with a powerful vibrating belt clip for an extra physical alert.

For details on these and other XiR P6600i Series accessories, please download the MOTOTRBO Professional Accessories Catalogue.

To get connected with MOTOTRBO, please contact your local Motorola representative or visit motorolasolutions.com/MOTOTRBO

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