

MOTOTRBO™ XiR E8600i Series

YOU'RE READY FOR ANYTHING

With this dynamic evolution of MOTOTRBO digital two-way radios, you're more agile, better connected and safer. The XiR E8600i Series is designed for the mobile professional who needs effective communications. With a compact design and high performance integrated voice and data, these next-generation radios deliver comprehensive connectivity to your organisation.

AGILE

The MOTOTRBO XiR E8600i Series is a tough and compact DMR-standard digital radio. Its small form factor makes it conveniently portable, with an efficient short antenna that won't get in your way. It's tested to military standards for extreme ruggedness, and is IP68 capable for almost complete immunity to dust and water. It won't let you down even in harsh environments.

CONNECTED

The XiR E8600i Series 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 analogue technology, you can keep your organisation connected as it grows.

SAFE

Safeguard your staff with responsive push-to-talk technology. The prominent orange emergency button on the XiR E8600i Series summons help with one touch, using Transmit Interrupt to clear a channel when necessary. An integrated accelerometer senses if you've fallen, and can initiate a call for assistance.



WHAT'S NEW IN THESE NEXT GENERATION RADIOS

- Integrated accelerometer for optional Man Down feature
- Bluetooth® 4.0
- Indoor location tracking
- Multi-constellation GNSS for increased location accuracy
- Integrated Wi-F
- Over-the-air softwar updates
- Enhanced audio quality
- Improved expandabilit
- Better rang
- Better waterproofin
 IP68 capable



Model Number	XiR E8600i, XiR E8608i					
Band	VHF	350	UHF			
GENERAL SPECIFICATIONS						
Frequency	136-174 MHz	350-400 MHz	403-527 MHz			
High Power Output	5 W	4 W	4 W			
Low Power Output	1 W	1 W	1 W			
Channel Spacing		12.5, 25 kHz				
Channel Capacity		32				
Dimensions (H x W x D), Radio + Standard Battery		100 x 56 x 30 mm				
Weight, Radio + Standard Battery		254 g				
Digital / Analogue Battery Life ¹		16 / 12 hrs				
Power Supply (Nominal)		7.5 V				



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 102 361-1, -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				

BLUETOOTH SPECIFICATIONS				
Version	4.0			
Range	Class 2, 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	< 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	64			
ENVIRONMENTAL SPECIFICAT	IONS			
Operating Temperature ³	-30 °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 - IP68 Capable			
Packaging Test	MIL-STD 810D and E			

NOTES

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

MILITARY STAN	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	ı	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	1	503.2	A1/C3	503.3	A1/C3	503.4	1	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	1, 11	506.2	1, 11	506.3	1, 11	506.4	1, 111	506.5	1, 111	
Humidity	507.1	Ш	507.2	II/Hot-Humid	507.3	II/Hot-Humid	507.4	-	507.5	II/Hot-Humid	
Salt Fog	509.1	1	509.2	ı	509.3	1	509.4	-	509.5	-	
Dust	510.1	1, 11	510.2	1, 11	510.3	1, 11	510.4	1, 11	510.5	1, 11	
Vibration	514.2	VIII/F, W, XI	514.3	I/10, II/3	514.4	I/10, II/3	514.5	1/24, 11/5	514.6	1/24, 11/5	
Shock	516.2	Ш	516.3	I, IV	516.4	I, IV	516.5	I, IV	516.6	I, IV	

CONNECTION

- VHF Band, 5 W
- UHF Band, 4 W
- 350 Band, 4 W
- 32 Channels
- Analogue and Digital Voice and Data
- 0
- Integrated Wi-Fi
- Canned Text Messaging
- Multi-constellation GNSS
- Indoor Location Tracking
- Event-Driven Location Update
- Bluetooth Audio
- Bluetooth Data
- Voice Announcement
- Text to Speech
- Option Board
- Home Channel Reminder

AUDIO

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

CUSTOMISATION

- Wide Range of Accessories
- Slim GCAI Accessory Connector
- Multi-Button PTT
- 2 Programmable Buttons
- Emergency Button

MANAGEMENT

- Radio Management
- Over-the-Air Programming
- o Over-the-Air Software Update

SAFETY

- Integrated Accelerometer
- Man Down
- Lone Worker
- AES Encryption
- Transmit Interrupt Emergency
- Emergency Search Tone Remote Monitor
- Radio Disable / Enable
- Waterproof IP68 Capable
 Rugged to MIL-STD 810

SYSTEMS

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

o Optional

² Typical battery life, 5/5/90 profile at maximum transmitter power with GNSS, Bluetooth, Wi-Fi and Option Board applications disabled.

Actual observed runtimes may vary.

3 Radio only. Battery operation down to -10 °C only.

BLUETOOTH

Connect to your radio without wires, for extra comfort and safety. A full portfolio of Bluetooth headsets and earpieces is available.



REMOTE SPEAKER MICROPHONE

Improve usability with a Remote Speaker Microphone (RSM). Choose from standard, heavy duty and noisecancelling models, with or without secondary earpiece connector.



ENERGY SOLUTIONS

Make sure your radio is powered and charged properly, with our range of energy solutions. Includes custom insert for IMPRES chargers.



EARPIECES

For all-day comfort, choose from our range of earpieces. Lightweight or heavy duty, discreet or rugged, with or without built-in hearing protection.



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.



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.



For details on these and other XiR E8600i 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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