

MOTOTRBO[™] Xir E8600 Series Portable radio

NOW YOU'RE READY FOR ANYTHING



You have to be agile while you stay connected. You need an unobtrusive radio that's tough enough to handle workplace abuse, but doesn't get in your way. Now there's an extra-small portable that gives you all of that, plus all the advanced features of digital technology to elevate communications in your business.

Versatile and powerful, MOTOTRBO[™] combines the best of two-way radio functionality with the latest analogue and digital technology. The MOTOTRBO portfolio gives you the right device for the right user, from voice-only portables to feature-rich voice and data radios.

Incredibly compact and exceptionally rugged, the MOTOTRBO XiR E8600 Series is the perfect solution for the professional on the move. It integrates voice and data seamlessly, offers enhanced features that are easy to use, and delivers business-critical advantages like integrated Bluetooth® and Intelligent Audio.

The XiR E8600 Series fits comfortably in your hand, so you can carry it easily. Place it on your belt in its custom carry holster and move freely while you stay light on your feet. It's loaded with all the benefits of the latest digital technology – superb audio quality, amazing clarity, outstanding coverage, long-lasting battery life and more.

The XiR E8600 Series keeps you agile and in touch in tough work environments, helping you to achieve even greater efficiency and safety.

FEATURES

- Analogue / Digital
- Voice / Data
- Intelligent Audio
- Enhanced Privacy
- IMPRES[™] Audio
- Bluetooth Audio
- Bluetooth Data
- Integrated GPS Receiver
- Emergency button
- Dual Capacity
 Direct Mode
- Digital Mobile Radio (DMR) Standards Compliant
- IP67 Rated

OPTIONS

- Radio Management Suite
- Over The Air Programming (OTAP)
- Transmit Interrupt

SYSTEMS COMPATIBILITY

- IP Site Connect
- Capacity Plus
- Linked Capacity Plus

SMALL, TOUGH AND POWERFUL, FOR THE DEMANDING PROFESSIONAL WHO WANTS TO STAY LIGHT ON THEIR FEET

HEAR AND BE HEARD CLEARLY OVER NOISE

When it comes to exceptional audio quality, digital technology can't be beaten. XiR E8600 Series portables give you digital audio performance throughout your coverage area plus unique features to help employees hear and be heard clearly, wherever they work.

With Intelligent Audio, the radio volume automatically adjusts to compensate for background noise. Workers don't have to adjust their radio volume to avoid missing a call in loud places or disturb others when they move into quiet areas. Increased background noise suppression helps filter out unwanted external sounds – from heavy equipment to crowd noise.

UNLEASH THE POWER OF YOUR RADIO

Choose the only accessories designed and certified for Motorola portables. Our IMPRES[™] audio accessories enhance noise suppression and improve voice intelligibility for clarity and quality like you've never experienced before. (See separate accessories fact sheet for full portfolio.) Because the XiR E8600 Series shares chargers and accessories with other Motorola radios, you get even more out of your MOTOTRBO[™] solution

STREAMLINE THE WORKDAY WITH INTEGRATED DATA

XiR E8600 Series portable radios feature integrated Bluetooth[®] to share information wirelessly and instantly between devices. Now rather than waiting until the end of a shift, busy work crews can send real-time data directly to the office, saving time and enhancing decisionmaking.

Integrated GPS enables location tracking of mobile work teams, helping improve personnel safety and operational efficiency. And if an emergency occurs, you can pinpoint security personnel and quickly despatch the nearest to the scene.

WATER AND DUST-TIGHT TOUGH

Drop it, wet it, submerge it, blast it with dust and dirt. The XiR E8600 Series powers through harsh environments and inhospitable conditions so your teams have reliable communications to do their jobs, safely and efficiently – whether they're a grounds crew on a golf course or a private security team on campus.

The XiR E8600 Series is IP67-rated, and meets or exceeds U.S. Military Standard 810 C, D, E, F, & G standards for exceptional durability. It undergoes the grueling Motorola Accelerated Life Testing, so you can be assured it will last. These tests simulate up to five years of hard use in the most challenging environments.

MIGRATE AT YOUR OWN PACE

It's easy to migrate from analogue to digital because XiR E8600 Series operates in both modes. A dynamic mixed mode repeater functionality streamlines automatic switching between analogue and digital calls. So you can use your existing analogue system and move to digital when time and budget allow.

INTEGRATE YOUR DEVICES SEAMLESSLY

Make sure your new MOTOTRBO system is ready when you are. We can bring together the right experts and processes to help you integrate XiR E8600 Series radios into your existing system, quickly and cost-effectively. This includes Coverage Mapping, Site Integration, Device Programming and IP Networking Services.

GET DURABILITY THAT ENDURES

MOTOTRBO radios are made to last and backed by a two-year Standard Warranty, with 1-year warranty for batteries and Motorola-branded accessories. In addition, Service from the Start provides multi-year peace of mind with fast repair turnaround times, expert telephone technical support and access to the latest software releases*; all backed by Motorola's globally integrated services infrastructure, highly qualified support technicians and certified repair facilities.

MOTOROLA ACCELERATED LIFE TESTING PROGRAM



RAIN

Steady rainfall and wind for 30 minutes on every surface



BLOWING DUST Six hours of blowing dust on all surfaces



VIBRATION

Up to 9 hours of exposure to vibration that simulates the rigors a radio could undergo while being carried or transported



SALT FOG 48 hours of exposure, to test resistance to corrosive atmospheres



DROP ONTO HARD SURFACE

18 drops with a minimum G force of 40 G each, that simulate everyday bumps, knocks and rough treatment



TEMPERATURE STORAGE

Multiple hours of exposure to storage temperatures as low as -55°C and as high as 70°C

* Software release covers patches and maintenance releases of the current version to the operating system i.e. that shipped with the terminal.

PRODUCT SPEC SHEET

MOTOTRBO[™] XIR E8600 SERIES PORTABLE RADIO

	NON-DISPLAY		
	VHF	UHF	
Channel Capacity	32		
Frequency	136-174 MHz	403-527 MHz	
Radio dimensions, when equipped with Slim Standard Li-lon (1600 mAh) Battery (PMNN4440) Height (H) Width (W) Thickness (T) Weight	100 mm 63 mm 34 mm 254 g		
Power Supply	7.5V (Nomi	nal)	
Operating Temperature	-30°C² / +60°C		
IC Description	109U-89FT3833	109U-89FT4914	

Average battery life at 5/5/90 duty cycle with carrier squelch	and transmitter in high power."
Olive Otherstein Liller (1000 - ALI) Dettern (DMANA 440)	

Slim Standard Li-Ion (1600 mAH) Battery (PMNN4440)	Analogue: 8.5 hrs Digital: 12.3 hrs			
RECEIVER				
Channel Spacing	12.5 kHz / 20 kHz / 25 kHz			
Frequency Stability (-30°C, +60°C, +25°C Ref)	± 0.5 ppm			
Analogue Sensitivity (12 dB SINAD) Typical	0.3 uV (0.22 uV typical)			
Digital Sensitivity (5% BER)	0.25 uV (0.19 uV typical)			
Intermodulation (TIA603D)	70 dB			
Adjacent Channel Selectivity (TIA603A)-1T	60 dB @ 12.5 kHz 70 dB @ 20/25 kHz			
Adjacent Channel Selectivity (TIA603D)-2T	45 dB @ 12.5 kHz 70 dB @ 20/25 kHz			
Spurious Rejection (TIA603D)	70 dB			
Rated Audio	0.5 W			
Audio Distortion @ Rated Audio	5% (3% typical)			
Hum and Noise	-40 dB @ 12.5 kHz -45 dB @ 20/25 kHz			
Audio Response	TIA603D			
Conducted Spurious Emissions (TIA603D)	-57 dBm			

Channel Spacing	12.5 kHz / 20 kHz / 25 kHz			
Frequency Stability (-30°C, +60°C, +25°C Ref)	± 0.5 ppm			
Low Power Output	1 W			
High Power Output	5 W 4 W			
Modulation Limiting	± 2.5 kHz @ 12.5 kHz ± 4.0 kHz @ 20 kHz ± 5.0 kHz @ 25 kHz			
FM Hum and Noise	-40 dB @ 12.5 kHz -45 dB @ 20/25 kHz			
Conducted / Radiated Emission	-36 dBm < 1 GHz -30 dBm > 1 GHz			
Adjacent Channel Power	60 dB @ 12.5 kHz 70 dB @ 20/25 kHz			
Audio Response	TIA603D			
Audio Distortion	3%			
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 Vocoder Type	AMBE +2™			
Digital Protocol	ETSI TS 102 361-1, -2, -3			

¹ Actual battery runtime observed may vary based on the use of certain features such as GPS, Bluetooth, and Expansion Card based applications.
² Radio only - Li-lon battery -10°C
Specifications subject to change without notice. All specifications shown are typical.

PRODUCT SPEC SHEET

MOTOTRBO[™] XiR E8600 SERIES PORTABLE RADIO

Accuracy specs are for	or long-term tr	acking (95th pe	ercentile valu	es > 5 satellites	s visible at no	minal -130 dBm	n signal strenç	jth)		
TTFF (Time To First Fix) - Cold Start				< 60 seconds						
TTFF (Time To First Fix) - Hot Start				< 10 seconds						
Horizontal Accuracy				< 5 meters						
BLUETOOTH (F	OR XiR E8	608 ONLY)								
Version					Si	upports Bluetoo	oth® 2.1 + EDF	R Specification		
Range				Class 2, 10 meters						
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 Blue				uetooth data device simultaneously		
MILITARY STAP	VDARDS									
	810C		81	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	Ш	500.4	Ш	500.5	Ш
High Temperature	501.1	I, II	501.2	I/A1, II/A1	501.3	I/A1, II/A1	501.4	l/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, II
Temperature Shock	503.1	-	503.2	I/A1/C3	503.3	I/A1/C3	503.4	I	503.5	I/C
Solar Radiation	505.1	II	505.2	I	505.3	I	505.4	I	505.5	I/A1
	506.1	LI	506.2	I, II	506.3	I, II	506.4	I, III	506.5	I, III
Rain	500.1	.,								
	507.1		507.2	II	507.3	II	507.4	-	507.5	
Humidity			507.2 509.2	 _	507.3 509.3	 _	507.4 509.4		507.5 509.5	-
Humidity Salt fog	507.1							- - I		
Rain Humidity Salt fog Dust Vibration	507.1 509.1		509.2		509.3	-	509.4		509.5	

ENVIRONMENTAL SPECIFICATIONS

Operating Temperature	-30°C² / +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	IEC 60529 - IP67			
Packaging Test	MIL-STD 810F and G			
Testing completed using portable radio with attached battery and antenna.				

¹ Actual battery runtime observed may vary based on the use of certain features such as GPS, Bluetooth, and Expansion Card based applications.

² Radio only - Li-lon battery -10°C Specifications subject to change without notice. All specifications shown are typical.

Radio meets applicable regulatory requirementes.

For more information on the MOTOTRBO[™] XiR E8600[™], visit motorolasolutions.com/mototrbo.

To find your nearest Motorola Channel Partner, go to motorolasolutions.com/contactus.

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