MOTOTRBO™ XiR M6660™ MOBILE RADIO

DIGITAL, NOW WITHIN REACH



Picking up cargo or re-routing school buses, how do you make sure your people stay connected and safe? MOTOTRBO™ can help by putting the power of digital communications within reach. Versatile and powerful, the MOTOTRBO XiR M6660™ combines the best of two-way radio functionality with the latest digital technology for enhanced voice and data.

MOTOTRBO XiR M6660 mobile radios are compact and capable for the busy mobile worker who needs digital technology at an affordable cost. You get all the advantages of digital – including integrated voice and data, twice the calling capacity and clearer voice communications.

The MOTOTRBO XiR M6660 has systems capability, so when you need the flexible coverage of IP Site Connect, the XiR M6660 can deliver.

XiR M6660 is the perfect fit for your analog system, too. With easy scalability and analog interoperability, you can move to digital at your own pace and budget. Transform your operation with digital voice and data communication. XiR M6660 can help you achieve even greater productivity, safety and cost-efficiency.

FEATURES

- Analogue / Digital
- Voice Communications
- Canned Text Message
- Alphanumeric Display
- Intelligent Audio
- Dual Capacity Direct Mode
- Voice Announcement
- Digital Mobile Radio (DMR) Standards Compliant
- IP54 Rated

OPTIONS

- Enhanced Privacy
- Radio Management Suite
- Over the Air Programming (OTAP)
- Transmit Interrupt Capability
- IP Site Connect

AFFORDABLE VOICE COMMUNICATIONS FOR THE BUSY PROFESSIONAL WHO WANTS BETTER CONNECTIVITY

HEAR AND BE HEARD CLEARLY ON THE MOVE

When it comes to exceptional audio quality, digital technology can't be beaten. XiR M6660 delivers clarity throughout your coverage area plus unique features to help employees hear and be heard clearly. With its Intelligent Audio, for example, workers don't need to adjust their radio volume to avoid missing a call in loud places or disturb others when they move into quiet areas.

Unleash the power of your XiR M6660 mobiles with Motorola Original® accessories. They're the only accessories designed, built and tested with your radio to optimize its performance. (See separate accessory fact sheet for full portfolio.)

MIGRATE AT YOUR OWN PACE

Keeping operations running smoothly during a change in communication systems is vital to your operation. Now you can transition to digital with great confidence and low risk at a price you can afford. It's easy to migrate because the XiR M6660 operates in both analog and digital modes. Analog and digital channels can be configured concurrently on the same radio, and scanning can be digital, analog or dual-mode. So you can use your existing analog system and move to digital when time and budget allow.

CONN ECT MORE PEOPLE, MORE PRODUCTIVELY

Whether your people are delivering packages or transporting students, you'll appreciate our mobile's easy scalability. All it takes is a simple software upgrade to add key features like transmit interrupt suite to prioritize critical communication.

And when you want to expand capacity or coverage, rely on IP Site Connect which uses the Internet to extend coverage to employees anywhere in the world.

IMPROVE THEIR EFFECTIVENESS

With enhanced features and integrated systems capability, the XiR M6660 helps your workers be more effective at what they do. Voice announcement, for example, calls out channel and zone changes so they don't have to look at the radio while they're on the go. And convenient one-touch programmable buttons provide fast access to their favorite radio features.

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 MOTOTRBO mobile 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

The XiR M6660 is made to last. It is backed by a two-year standard warranty and a minimum one-year warranty for Motorola-branded accessories. It is rated IP54 (waterproof, virtually dustproof), so it can be used even in harsh environments. Moreover, the design has been proven tough in Motorola's grueling Accelerated Life Test program, in which the radio must survive a simulated 5 years of hard service before it is accepted. You can be confident in the durability of your XiR M6660 radios.



PRODUCT SPEC SHEET
MOTOTRBO™ XiR M6660™ MOBILE RADIO



GENERAL SPECIFICATIONS

	XiR M6660	
	VHF	**UHF**
Channel Capacity	256	
Typical RF Output Low Power High Power	 1-25 W 25-45 W	 1-25 W 25-40 W
Frequency	136-174 MHz	403-438 MHz / 403-470 MHz
Dimensions (H x W x L)	1.7 x 6.7 x 5.3 in (44 x 169 x 134 mm)	
Weight	2.9 lbs (1.3 kg)	
Current Drain Standby Rx @ Rated Audio Transmit	 0.81 A max 2 A max 1-25 W: 11.0 A max / 25-45 W: 14.5 A max	 0.81 A max 2 A max 1-25 W: 11.0 A max / 25-40 W: 14.5 A max
FCC Description	1-25 W: ABZ99FT3090 25-45 W: ABZ99FT3091	1-25 W: ABZ99FT4092 25-40 W: ABZ99FT4093
IC Description	1-25 W: 109AB-99FT3090 25-45 W: 109AB-99FT3091	1-25 W: 109AB-99FT4092 25-40 W: 109AB-99FT4093

RECEIVER

Frequency	136-174 MHz	403-438 MHz / 403-470 MHz
Channel Spacing	12.5 kHz / 25 kHz	
Frequency Stability (-30°C, +60°C, +25°C Ref)	± 0.5 ppm	
Analog Sensitivity (12 dB SINAD)	0.3 uV 0.22 uV (typical)	
Digital Sensitivity (5% BER)	0.25 uV 0.19 uV (typical)	
Intermodulation (TIA603D)	75 dB	70dB
Adjacent Channel Selectivity (TIA603D)	50 dB @ 12.5 kHz 75 dB @ 25 kHz	50 dB @ 12.5 kHz 70 dB @ 25 kHz
Spurious Rejection (TIA603D)	75 dB	70 dB
Rated Audio	4 W (Internal) 7.5 W (External - 8 ohms) 13 W (External - 4 ohms)	
Audio Distortion @ Rated Audio	3% (typical)	
Hum and Noise	-40 dB @ 12.5 kHz -45 dB @ 25 kHz	
Audio Response	TIA603D	
Conducted Spurious Emissions (TIA603D)	-57 dBm	

TRANSMITTER

Frequency	136-174 MHz	403-438 MHz / 403-470 MHz
Channel Spacing	12.5 kHz / 20 kHz	
Frequency Stability (-30°C, +60°C, +25°C Ref)	± 0.5 ppm	
Low Power Output	1-25 W	1-25 W
High Power Output	25-45 W	25-40 W
Modulation Limiting	± 2.5 kHz @ 12.5 kHz ± 5.0 kHz @ 25 kHz	
FM Hum and Noise	-40 dB @ 12.5 kHz -45 dB @ 25 kHz	
Conducted / Radiated Emission	-36 dBm < 1 GHz -30 dBm > 1 GHz	
Adjacent Channel Power	60 dB @ 12.5 kHz 70 dB @ 25 kHz	
Audio Response	TIA603D	
Audio Distortion	3%	
FM Modulation	12.5 kHz: 11K0F3E 25 kHz*: 16K0F3E	
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	

Specifications subject to change without notice. All specifications shown are typical.
Radio meets applicable regulatory requirements.

MILITARY STANDARDS

	810C		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	II	500.4	II	500.5	II
High Temperature	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
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
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	507.3	II	507.4	–	507.5	II - Aggravated
Salt fog	509.1	–	509.2	–	509.3	–	509.4	–	509.5	–
Dust	510.1	I	510.2	I	510.3	I	510.4	I	510.5	I
Vibration	514.2	VIII/F, Curve-W	514.3	I/10, II/3	514.4	I/10, II/3	514.5	I/24	514.6	I/24, II/5
Shock	516.2	I, II	516.3	I, IV	516.4	I, IV	516.5	I, IV	516.6	I, IV, V, VI

ENVIRONMENTAL SPECIFICATIONS

Operating Temperature	-30°C[2] / +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	IP54, MIL-STD*
Packaging Test	Per MIL-STD

*Radio meets IP54 and MIL-STD rating with microphone sealing boot and rear accessory connector cover properly installed.
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Radio meets applicable regulatory requirements.

For more information on the MOTOTRBO™ XiR M6660™, visit **motorolasolutions.com/mototrbo**.

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

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MOTOTRBO™ DIGITAL REMASTERED.

MOTOROLA