



# MOTOTRBO™

## XiR M8260/M8268/M8220/M8228 Mobile Radios



Mobile radios available in Display and Numeric Display, **GPS and Non-GPS models**

Uses Time-Division Multiple-Access (TDMA) digital technology which **doubles the number of users** you can have on a single licensed 12.5 kHz channel

**Integrates voice and data** to increase operational efficiency

Provides **clearer voice communications** throughout the coverage area as compared to analog radios

**Enhanced call management** features include call alert, emergency, remote monitor, push-to-talk ID, radio check, private call, all call and radio disable

Optional **IP Site Connect** provides automatic roaming from one coverage area to another with no manual intervention or interruption

The optional **enhanced privacy** mode further protects the voice and data communications

Four programmable buttons (two buttons for XiR M8220) for **easy access to favorite features**; Replacement Button Kit offers customized feature-specific buttons

Emergency button (or footswitch) **alerts supervisor** or dispatcher in emergency situations

XiR M8268 can **transmit location coordinates** with an emergency call using Location Services application

Allows **easy migration** from analog to digital as all units operate in analog and digital modes

Meets U.S. Military Standards 810 C, D, E, and F, and **Motorola standards** for durability and reliability

Newly designed and durable IMPRES™ keypad microphone supports unit to unit **short free form and quick text messaging**

Utilizes the IMPRES Audio System for **enhanced audio functionality**

Send short free-form (requires keypad microphone) and quick **text messaging** via programmable buttons

XiR M8260/8268 contacts list accommodates up to **256 contacts**

### Accelerate performance.

The next-generation professional two-way radio communications solution is here, with more performance, productivity and value—thanks to digital technology that delivers increased capacity and spectrum efficiency, integrated data communications and enhanced voice communications.

MOTOTRBO offers you a private, standards-based, cost-effective solution that can be tailored to meet your unique coverage and feature needs. This versatile portfolio provides a complete system of portable radios, mobile radios, repeaters, accessories and data applications.

## General Specifications\*

	XiR M8260 Display Non-GPS Model XiR M8268 Display GPS Model			XiR M8220 Non-Display Non-GPS Model XiR M8228 Non-Display GPS Model		
	UHF		VHF	UHF		VHF
Channel Capacity	1000			32		
Frequencies	403-470 MHz	450-512 MHz	136-174 MHz	403-470 MHz	450-512 MHz	136-174 MHz
Dimension (HxWxT)	51 x 175 x 206 mm			51 x 175 x 206 mm		
Weight	1.8 kg (4.0 lbs)			1.8 kg (4.0 lbs)		
Current Drain (High Power)	0.81 A max			0.81 A max		
Standby	2 A max			2 A max		
Rx @ Rated Audio	14.5 A max			14.5 A max		
Tx @ Rated Audio	13.8 VDC			13.8 VDC		
Power Supply	1-25W : ABZ99FT4081 25-40W : ABZ99FT4080			1-25W : ABZ99FT4081 25-40W : ABZ99FT4080		
FCC Description	1-25W : ABZ99FT4081 25-40W : ABZ99FT4080			1-25W : ABZ99FT3083 5-45W : ABZ99FT3082		

### Receiver

	403-470 MHz	450-512 MHz	136-174 MHz	403-470 MHz	450-512 MHz	136-174 MHz
Frequencies	12.5 kHz/ 25 kHz			12.5 kHz/ 25 kHz		
Channel Spacing	12.5 kHz/ 25 kHz			12.5 kHz/ 25 kHz		
Frequency Stability	+/- 1.5 ppm (XiR M8260) +/- 0.5 ppm (XiR M8268)			+/- 1.5 ppm (XiR M8220) +/- 0.5 ppm (XiR M8228)		
(-30° C, +60° C, +25° C)	0.3 uV (12 dB SINAD) 0.4 uV (20 dB SINAD)			0.3 uV (12 dB SINAD) 0.4 uV (20 dB SINAD)		
Analog Sensitivity	0.22 uV (typical)			0.22 uV (typical)		
Digital Sensitivity	5% BER: 0.3 uV			5% BER: 0.3 uV		
Intermodulation	75 dB			75 dB		
TIA603C	60 dB			60 dB		
ETS	78 dB			78 dB		
Adjacent Channel Selectivity	60 dB @ 12.5 kHz 70 dB @ 25 kHz			60 dB @ 12.5 kHz 70 dB @ 25 kHz		
(TIA603, ETS)	75 dB			75 dB		
Spurious Rejection	70 dB			70 dB		
TIA603C	80 dB			80 dB		
ETS	70 dB			70 dB		
Rated Audio	3 W (Internal) 75 W (External - 8 ohms) 13 W (External - 4 ohms)			3 W (Internal) 75 W (External - 8 ohms) 13 W (External - 4 ohms)		
Audio Distortion @ Rated Audio	3% (typical)			3% (typical)		
Hum and Noise	-40 dB @ 12.5 kHz -45 dB @ 25 kHz			-40 dB @ 12.5 kHz -45 dB @ 25 kHz		
Audio Response	+1, -3 dB			+1, -3 dB		
Conducted Spurious Emission	-57 dBm			-57 dBm		

### Transmitter

	403-470 MHz	450-512 MHz	136-174 MHz	403-470 MHz	450-512 MHz	136-174 MHz
Frequencies	12.5 kHz/ 25 kHz			12.5 kHz/ 25 kHz		
Power Output	1-25 W			1-25 W		
Low Power	1-40 W			1-40 W		
High Power	25-40 W			25-45 W		
Channel Spacing	12.5 kHz/ 25 kHz			12.5 kHz/ 25 kHz		
Frequency Stability	+/- 1.5 ppm (XiR M8260) +/- 0.5 ppm (XiR M8268)			+/- 1.5 ppm (XiR M8220) +/- 0.5 ppm (XiR M8228)		
(-30° C, +60° C, +25° C)	+/- 2.5 kHz @ 12.5 kHz +/- 5.0 kHz @ 25 kHz			+/- 2.5 kHz @ 12.5 kHz +/- 5.0 kHz @ 25 kHz		
Modulation Limiting	-40 dB @ 12.5 kHz -45 dB @ 25 kHz			-40 dB @ 12.5 kHz -45 dB @ 25 kHz		
FM Hum and Noise	-36 dBm < 1 GHz -30 dBm > 1 GHz			-36 dBm < 1 GHz -30 dBm > 1 GHz		
Conducted / Radiated Emission	-60 dB @ 12.5 kHz -70 dB @ 25 kHz			-60 dB @ 12.5 kHz -70 dB @ 25 kHz		
Adjacent Channel Power	+1, -3 dB			+1, -3 dB		
Audio Response	3%			3%		
Audio Distortion	12.5 kHz : 11K0F3E 25 kHz : 16K0F3E			12.5 kHz : 11K0F3E 25 kHz : 16K0F3E		
FM Modulation	12.5 kHz Data Only: 7K60FXD 12.5 kHz Data & Voice: 7K60FXE			12.5 kHz Data Only: 7K60FXD 12.5 kHz Data & Voice: 7K60FXE		
4FSK Digital Modulation	AMBE+2™			AMBE+2™		
Digital Vocoder Type	ETSI-TS102 361-1			ETSI-TS102 361-1		
Digital Protocol						

### GPS

Accuracy specs are for long-term tracking (95th percentile values > 5 satellites visible at a nominal -130 dBm signal strength)

TTF (Time To First Fix) Cold Start	< 1 minute
TTF (Time To First Fix) Hot Start	< 10 seconds
Horizontal Accuracy	< 10 meters

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

Conforms to  
EC 1999/5/EC (R&TTE - Radio and Telecommunications Terminal Equipment)  
EN 300 086  
EN 300 113

### Environmental Specifications

Operating Temperature	-30° C / +60° C
Storage Temperature	-40° C / +85° C
Thermal Shock	Per MIL-STD
Humidity	Per MIL-STD
ESD	IEC-801-2KV
Water Intrusion	IEC 60529 - IP57
Packaging Test	MIL-STD 810D and E



**MOTOROLA**

Contact your Local Dealer/Distributor

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