MOTOTRBO™

XiR P8260/P8268/P8200/P8208 Portable Radios

Portable radios available in Display and Non-Display, **GPS and Non-GPS models**

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

Supports **integrated applications** including MOTOTRBO Text Messaging Services and MOTOTRBO Location Services

Provides **clearer voice communications** throughout the coverage area

Up to **40 percent longer** battery life between recharges

Enables additional functionality including dispatch data, and enhanced call signaling

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

Emergency button alerts supervisor or dispatcher in an emergency situation

XiR P8268 can **transmit location coordinates** with an emergency call

Integrates voice and data to increase operational efficiency

Send short free-form and quick **text messaging** via programmable buttons

XiR P8260/P8268 contacts list allows up to **256 contacts**

Allows an **easy migration** from analog to digital with the ability to operate in both modes

Meets **IP57 submersibility** standard along with U.S. Military Standards 810 C, D, E, and F and Motorola standards for durability and reliability

Is **intrinsically safe** and can be used in locations where flammable gas, vapors or combustible dust may be present

Portable radios **meet FM approvals.** Approved FM battery option is a 1400 mAh slim Lilon FM battery

Accessory connector meets IP57 submersibility specifications, incorporates RF, and USB and utilises the IMPRES™ Audio System for **enhanced audio functionality**

Utilises Motorola's state-of-the art **IMPRES** technology—providing **longer talk times and clearer audio delivery**

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 P8260 Display Non GPS Model XiR P8268 Display GPS Model		XiR P8200 Non-Display Non-GPS Model XiR P8208 Non-Display GPS Model	
	UHF	**VHF**	**UHF**	**VHF**
Channel Capacity	160		32	
Frequency	403 - 470 MHz	136-174 MHz	403 - 470 MHz	136-174 MHz
Dimension (HxWxT) w/ 1500 mAh LiIon Battery	131.5 x 63.5 x 35.2 mm		131.5 x 63.5 x 35.2 mm	
Weight (with 1500 mAH LiIon Battery)	360g (12.7 oz)		360g (12.7 oz)	
(with 2200 mAh LiIon Battery)	361g (12.8 oz)		361g (12.8 oz)	
(with 1400 mAh LiIon FM Battery)	370g (13 oz)		370g (13 oz)	
Power Supply	7.2V nominal		7.2V nominal	
FCC Description	AZ489FT4876	AZ489FT3815	AZ489FT4876	AZ489FT3815
Average battery life at 5/5/90 duty cycle with battery saver enabled in carrier squelch and transmitter in high power.				
IMPRES 1500 mAh LiIon Battery	Analog: 9 hrs Digital: 13 hrs		Analog: 9 hrs Digital: 13 hrs	
IMPRES 2200 mAh LiIon Battery	Analog: 13.5 hrs Digital: 19 hrs		Analog: 13.5 hrs Digital: 19 hrs	
IMPRES FM 1400 mAh Battery	Analog: 8.5 hrs Digital: 12 hrs		Analog: 8.5 hrs Digital: 12 hrs	

Receiver				
Frequencies	403-470 MHz	136-174 MHz	403-470 MHz	136-174 MHz
Channel Spacing	12.5 kHz/ 25 kHz		12.5 kHz/ 25 kHz	
Frequency Stability	+/- 1.5 ppm (XiR P8260)		+/- 1.5 ppm (XiR P8200)	
(-30° C, +60° C, +25° C)	+/- 0.5 ppm (XiR P8268)		+/- 0.5 ppm (XiR P8208)	
Analog Sensitivity	0.35 uV (12 dB SINAD) 0.4 uV (20 dB SINAD) 0.22 uV (typical)		0.35 uV (12 dB SINAD) 0.4 uV (20 dB SINAD) 0.22 uV (typical)	
Digital Sensitivity	5% BER: 0.3 uV		5% BER: 0.3 uV	
Intermodulation				
TIA603C	70 dB		70 dB	
ETSI	65 dB		65 dB	
Adjacent Channel Selectivity	60 dB @ 12.5 kHz 70 dB @ 25 kHz		60 dB @ 12.5 kHz 70 dB @ 25 kHz	
Spurious Rejection	70 dB		70 dB	
Rated Audio	500 mW		500 mW	
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				
Frequencies	403-470 MHz	136-174 MHz	403-470 MHz	136-174 MHz
Channel Spacing	12.5 kHz/ 25 kHz		12.5 kHz/ 25 kHz	
Frequency Stability	+/- 1.5 ppm (XiR P8260)		+/- 1.5 ppm (XiR P8200)	
(-30° C, +60° C, +25° C)	+/- 0.5 ppm (XiR P8268)		+/- 0.5 ppm (XiR P8208)	
Power Output				
Low Power	1W	1W	1W	1W
High Power	4W	5W	4W	5W
Modulation Limiting	+/- 2.5 kHz @ 12.5 kHz +/- 5.0 kHz @ 25 kHz		+/- 2.5 kHz @ 12.5 kHz +/- 5.0 kHz @ 25 kHz	
FM Hum and Noise	-40 dB @ 12.5 kHz -45 dB @ 25 kHz		-40 dB @ 12.5 kHz -45 dB @ 25 kHz	
Conducted / Radiated Emission	-36 dBm < 1 GHz -30 dBm > 1 GHz and < 4GHz		-36 dBm < 1 GHz -30 dBm > 1 GHz and < 4GHz	
Adjacent Channel Power	-60 dB @ 12.5 kHz -70 dB @ 25 kHz		-60 dB @ 12.5 kHz -70 dB @ 25 kHz	
Audio Response	+1, -3 dB		+1, -3 dB	
Audio Distortion	3%		3%	
FM Modulation	12.5 kHz : 11K0F3E 25 kHz: 16K0F3E		12.5 kHz : 11K0F3E 25 kHz: 16K0F3E	
4FSK Digital 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	
Digital Vocoder Type	AMBE+2™		AMBE+2™	
Digital Protocol	ETSI-TS102 361-1		ETSI-TS102 361-1	

GPS	
Accuracy specs are for long-term tracking (95th percentile values > 5 satellites visible at a nominal -130 dBm signal strength)	
TTFF (Time To First Fix) Cold Start	< 1 minute
TTFF (Time To First Fix) Hot Start	< 10 seconds
Horizontal Accuracy	< 10 meters

Factory Mutual Approvals

MOTOTRBO XiR Portable series radios have been certifi ed by FM Approvals in accordance with Canada and U.S. Codes as intrinsically safe for use in Class I, II, III, Division 1, Groups C,D,E,F,G, when properly equipped with a Motorola FM approved battery option. They are also approved for use in Class I, Division 2, Groups A, B, C, D.

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

*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

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AC3-04-029