

MOTOTRBO[™]

PROFESSIONAL DIGITAL TWO-WAY RADIO 800 MHz SYSTEM

MOTOTRBO PROFESSIONAL DIGITAL TWO-WAY RADIO 800 MHz SYSTEM THE FUTURE OF TWO-WAY RADIO

Motorola is a company of firsts with a rich heritage of innovation. We continue to invent what's next—connecting people, delivering mobility and making technology personal. Versatile and powerful, MOTOTRBO combines the best in two-way radio functionality with digital technology, making it the ideal communication solution for your business. You get enhanced features, increased capacity, integrated data applications, exceptional voice quality and extended battery performance. This means more productive employees and lower operating costs for your business.



- Integrates Voice and Data into one device to increase your operational efficiency and support integrated applications including MOTOTRBO Text Messaging Services. Also features an integrated GPS module for use with third-party locationtracking applications.
- Uses Time-Division Multiple-Access (TDMA) digital technology to provide Twice The Calling Capacity (as compared to analog or FDMA radios) for the price of one frequency license. A second call doesn't require a second repeater, saving you equipment costs.
- In digital mode, provides Clearer
 Voice Communications throughout
 the coverage area, as compared to
 analog radios, rejecting static and
 noise.
- Offers Enhanced Battery Life.
 Digital TDMA two-way portable
 radios can operate up to 40 percent
 longer between recharges compared
 to typical analog radios.

- Provides Easy Migration from analog to digital with the ability to operate in both analog and digital modes and utilizing the Dynamic Mixed Mode* repeater functionality allows for automatic switching between analog and digital mode on the same repeater.
- Meets Demanding Specifications— IP57 for submersibility in water (portable models), U.S. Military 810 C, D, E and F, and Motorola standards for durability and reliability.
- Is Intrinsically Safe*, when purchased and equipped with an FM battery, and can be used in locations where flammable gas, vapors or combustible dust may be present.
- Utilizes Motorola's State-Of-The-Art IMPRES™ Technology in batteries, chargers and audio accessories, providing longer talk time and clearer audio delivery.

- Features the Transmit Interrupt
 Suite* —voice interrupt, remote
 voice dekey, emergency voice
 interrupt —to help prioritize critical
 communication exactly when
 needed.
- The IP Site Connect* digital solution uses the Internet to extend coverage of your MOTOTRBO communication system to users anywhere in the world for dramatically improved customer service and increased productivity.
- Capacity Plus* is a scalable, singlesite digital trunking solution that can expand the capacity of your MOTOTRBO communication to over a thousand radio users without adding new frequencies.
- Motorola's Application Developer Program enables the development of customized data applications that adapt MOTOTRBO radios to meet the unique needs of your business.

MOTOTRBO™ Repeater Radio 800 MHz

	XiR R8200
Total Channel Capacity	16
Frequency	800 MHz
Dimension (H x W x T)	132.6 x 482.6 x 296.5 mm
	5.22 x 19 x 11.67 in
Voltage requirements	100 - 240 VAC, 50/60Hz
Weight	14 kg (31 lbs)
Current Drain (High Power)	
Standby	1.0A (100 VAC), 0.5A (240 VAC)
Transmit	4.0A (100 VAC), 1.8A (240 VAC)
Operating Temperature Range	-30°C to +60°C
Max Duty Cycle	100%
FCC Description	10-35 W: ABZ99FT5029
lk	
Receiver	
requencies	806-825 MHz
Channel Spacing	12.5 kHz and 25 kHz
Frequency Stability	
-30° C, +60° C, +25° C)	+/- 0.5 ppm
Analog Sensitivity	0.22 uV (typical)
Digital Sensitivity	5% BER: 0.28 uV
ntermodulation (TIA603C)	78dB
Adjacent Channel Selectivity (TIA603C) - 1T	65 dB @ 12 5 kHz
PACSANCENTRAL PROPERTY NAMES OF THE	75 dB @ 25 kHz
Adjacent Channel Selectivity (TIA603C) - 2T	50 dB @ 12.5 kHz
adjacent channel delectivity (17-0000) - 21	75 dB @ 25 kHz
Spurious Rejection	75 dB @ 25 KH2
Audio Distortion @ Rated Audio	3% (typical)
Hum and Noise	-45 dB @ 12.5 kHz
num and Noise	
A	-45 dB @ 25 kHz
Audio Response	TIA603C
Conducted Spurious Emission	-57 dBm
Transmitter	
Frequencies	851-870 MHz
Channel Spacing	12.5 kHz and 25 kHz
Frequency Stability	7.2.5 (3.15.3) (3.25.13.15.
-30° C, +60° C, +25° C)	+/- 0.5 ppm
1-30 C, +60 C, +25 C/ Power Output	+7- 0.5 ррп1
Low Power	10W
High Power	35W
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	-50 dB @ 12.5 kHz
	-60 dB @ 25 kHz
Audio Response	TIA603C
Audio Distortion	3%
M Modulation	12.5 kHz: 11K0F3E
	25 kHz: 16K0F3E
4FSK Digital Modulation	12.5 kHz Data Only: 7K60FXD
4) SK Digital Modulation	12.5 kHz Data Woice: 7K60FXE
Digital Vocoder Type A	AMBE+2TM
Digital Protocol E	ETSI-TS102 361-1

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

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	
Packaging Test	MIL-STD 810D and E	



AUTHORIZED DEALER

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