

## MOTOTRBO<sup>™</sup>

XiR R8200 Repeater



Supports **two** simultaneous voice or data paths in digital Time-Division Multiple-Access (TDMA) mode

**Doubles the number** of users you can have on a single licensed 12.5 kHz channel

Integrates voice and data to increase operational efficiency

Operates in **analog or digital** mode—bright, clear, colored LEDs indicate mode Optional **IP Site Connect** allows networks up to 15 repeaters to expand voice & data coverage

Monitor and manage repeater via the the optional diagnostic and control utility

**100% continuous full duty cycle** at high power

**Integrated** power supply

Rack or wallmountable; desktop housing also available

Automated battery back-up (battery sold separately)

## 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 R8200		
	U	HF	VHF
Channel Capacity		16	3
Frequencies	403-470 MHz	450-512 MHz	136-174 MHz
Dimension (H x W x L)	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	1.0A (100 VAC), 0.5A (240 VAC)		
Standby Transmit	4.0A (100 VAC), 0.5A (240 VAC) 4.0A (100 VAC), 1.8A (240 VAC)		
Operating Temperature Range	-30°C to +60°C		
Max Duty Cycle	100%		
FCC Description	1-25 W : ABZ99FT4026 1-40W : ABZ99FT4027 1-25 W : ABZ99FT3026		
	25-40 W : ABZ99FT4025		25-45 W : ABZ99FT3025
Receiver			
Frequencies	403-470 MHz	450-512 MHz	136-174 MHz
Channel Spacing	12.5 kHz/ 25 kHz		
Frequency Stability			
(-30° C, +60° C, +25° C)	+/- 0.5 ppm		
Analog Sensitivity	0.3 uV (12 dB SINAD)		
	0.4 uV (20 dB SINAD)		
Digital Sanaitivity	0.22 uV (typical) 5% BER: 0.3 uV		
Digital Sensitivity Intermodulation	5% BER: 0.3 UV		
TIA603C		75	HR
ETS	75 dB 70 dB		
Adjacent Channel Selectivity	60 dB @ 12.5 kHz		
	70 dB @ 25 kHz		
Spurious Rejection			
TIA603C	75 dB		80 dB
ETS	70 dB		70 dB
Audio Distortion @ Rated Audio	3% (typical)		
Hum and Noise	-40 dB @ 12.5 kHz		
	-45 dB @ 25 kHz		
Audio Response	+ 1, -3 dB		
Conducted Spurious Emission	-57 dBm		
Transmitter			
Frequencies	403-470 MHz 450-512 MHz 136-174 MHz		
Channel Spacing		12.5 kHz	
Frequency Stability			
(-30° C, +60° C, +25° C)	+/- 0.5 ppm		
Power Output			
Low Power	1-25 W	1-40 W	1-25 W
High Power	25-40 W		25-45 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 / Padiated Emission	-45 dB @ 25 KHz -36 dBm < 1 GHz		
Conducted / Radiated Emission -36 dBm < 1 -30 dBm > 1			
Adjacent Channel Power		-60 dB @	
		-70 dB @	
Audio Response	+1, -3 dB		
Audio Distortion	3%		
FM Modulation	12.5 kHz : 11K0F3E		
	25 kHz: 16K0F3E		
4FSK Digital Modulation	12.5 kHz Data Only: 7K60FXD		
	12.5 kHz Data & Voice: 7K60FXE		
Digital Vocoder Type	AMBE+2 <sup>™</sup>		
Digital Protocol	ETSI-TS102 361-1		

\*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 300 080 EN 300 113



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