

MOTOTRBOTM

XiR R8200 Repeater



Supports **two simultaneous voice or data paths** in digital
Time-Division MultipleAccess (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)

Optional **Capacity Plus** is a scalable, singlesite digital solution that enables a large group of MOTOTRBO radio users to share both voice and data communication on the same system

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.

XiR R8200		
U		VHF
	16	••••
403-470 MHz	450-512 MHz	136-174 MHz
	132.6 x 482.6 x	
	5.22 x 19 x 1	1.67 in
	1.0A (100 VAC), 0.5	5A (240 VAC)
1-25 W : AB799FT4026		1-25 W : ABZ99FT3026
	1 4000 .7(82001 14027	25-45 W : ABZ99FT3025
20 10 17 17 182001 1 1020		20 10 11 11 12 20 11 10 20
403-470 MHz	450-512 MHz	136-174 MHz
	12.5 kHz/ 2	5 kHz
	·	
	+/- 0.5 ppm	
0.3 uV (12 dB SINAD)		
	0.4 uV (20 dB SINAD)	
	0.22 uV (typical)	
	75 dB	
	60 dB @ 12.5 kHz	
70 dB @ 25 kHz		
75 dB 80 dB		80 dB
70 dB 70 dB		
	3% (typic	cal)
-40 dB @ 12.5 kHz		
	-45 dB @ 25	5 kHz
+ 1, -3 dB		
-57 dBm		
403-470 MHz	450-512 MHz	136-174 MHz
	12.5 kHz/ 2	5 kHz
	+/- 0.5 pp	om C
1-25 W	1-40 W	1-25 W
1-25 W 25-40 W	1-40 W	1-25 W 25-45 W
	1-40 W +/- 2.5 kHz @ °	25-45 W
		25-45 W 12.5 kHz
	+/- 2.5 kHz @ ⁻	25-45 W 12.5 kHz 25 kHz
	+/- 2.5 kHz @ ^ +/- 5.0 kHz @	25-45 W 12.5 kHz 25 kHz .5 kHz
	+/- 2.5 kHz @ ^ +/- 5.0 kHz @ -40 dB @ 12	25-45 W 12.5 kHz 25 kHz .5 kHz 5 kHz
	+/- 2.5 kHz @ ' +/- 5.0 kHz @ ' -40 dB @ 12 -45 dB @ 2! -36 dBm < '	25-45 W 12.5 kHz 25 kHz .5 kHz 5 kHz
	+/- 2.5 kHz @ ' +/- 5.0 kHz @ ' -40 dB @ 12 -45 dB @ 2! -36 dBm < '	25-45 W 12.5 kHz 25 kHz .5 kHz 1 GHz
	+/- 2.5 kHz @ ' +/- 5.0 kHz @ ' -40 dB @ 12 -45 dB @ 2! -36 dBm < ' -30 dBm > '	25-45 W 12.5 kHz 25 kHz .5 kHz 1 GHz 1 GHz 1 GHz 1 KHz
	+/- 2.5 kHz @ ' +/- 5.0 kHz @ ' -40 dB @ 12 -45 dB @ 2! -36 dBm < ' -30 dBm > ' -60 dB @ 12 -70 dB @ 2!	25-45 W 12.5 kHz 25 kHz .5 kHz 1 GHz 1 GHz 1 GHz 5 kHz
	+/- 2.5 kHz @ ' +/- 5.0 kHz @ ' -40 dB @ 12 -45 dB @ 25 -30 dBm > ' -60 dB @ 12 -70 dB @ 25 +1, -3 d	25-45 W 12.5 kHz 25 kHz .5 kHz 1 GHz 1 GHz 1 GHz 5 kHz
	+/- 2.5 kHz @ +/- 5.0 kHz @ +/- 5.0 kHz @ -40 dB @ 12 -45 dB @ 2! -36 dBm <30 dBm >60 dB @ 12 -70 dB @ 2! +1, -3 d 3%	25-45 W 12.5 kHz 25 kHz .5 kHz 6 kHz 1 GHz 1 GHz 1 GHz 5 kHz
	+/- 2.5 kHz @ +/- 5.0 kHz @ +/- 5.0 kHz @ -40 dB @ 12 -45 dB @ 2! -36 dBm < -30 dBm > -60 dB @ 12 -70 dB @ 2! +1, -3 d 3% 12.5 kHz : 11	25-45 W 12.5 kHz 25 kHz .5 kHz 5 kHz 1 GHz 1 GHz 5 kHz 8 KHZ 8 KHZ
	+/- 2.5 kHz @ +/- 5.0 kHz @ +/- 5.0 kHz @ -40 dB @ 12 -45 dB @ 25 -36 dBm < -20 dBm > -20 dBm > -20 dB @ 25 -70 dB @ 25 +1, -3 d	25-45 W 12.5 kHz 25 kHz 5 kHz 6 kHz 1 GHz 1 GHz 1 GHz 5 kHz 8 KHZ 8 KHZ 1 GHS
	+/- 2.5 kHz @ +/- 5.0 kHz @ +/- 5.0 kHz @ -40 dB @ 12 -45 dB @ 2! -36 dBm < -20 dBm > -20 dBm > -20 dB @ 2! -70 dB @ 2! -70 dB @ 2! -70 dB @ 2! -70 dB & 2! -70 dB	25-45 W 12.5 kHz 25 kHz 5 kHz 6 kHz 1 GHz 1 GHz 1 GHz 1 GHz 8 kHz 8 kHz 9 kHz
	+/- 2.5 kHz @ +/- 5.0 kHz @ +/- 5.0 kHz @ -40 dB @ 12 -45 dB @ 25 -36 dBm < -20 dBm > -20 dBm > -20 dB @ 25 -70 dB @ 25 +1, -3 d	25-45 W 12.5 kHz 25 kHz 5 kHz 6 kHz 1 GHz 1 GHz 1 GHz 8 kHz 8 KNF3E (0F3E (0F3E (0F3E) 7 K60FXD ice: 7K60FXE
	403-470 MHz 1-25 W : ABZ99FT4026 25-40 W : ABZ99FT4025 403-470 MHz	UHF

ETSI-TS102 361-1

Conforms to EC 1999/6/EC (R&TTE - Radio and Telecommunications Terminal Equipment) EN 300 096 EN 300 113

Digital Protocol



www.motorola.com

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