

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

provide 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

Optional **Capacity Plus** enables repeaters to manage the availability of active channels. Users are automatically connected to co-workers without switching channels

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

Lone Worker feature alerts supervisor or dispatch by sending out an alarm when there is no radio activity over a specified duration of time.

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.

	XiR M8260 Display Non GPS Model			XiR M8220 Non-Display Non-GPS Model			
	XiR M8268 Display GPS Model UHF		VHF	XiR M8228 Non-Display GPS Model UHF		VHF	
Channel Capacity		1000	VHF	0	nr	32	
requencies	403-470 MHz	450-512 MHz	136-174 MHz	403-470 MHz	450-512 MHz	136-174 MHz	
imension (HxWxT)	403-470 10112	51 x 175 x 20		403-470 101112		5 x 206 mm	
/eight		1.8 kg (4.0				g (4.0 lbs)	
0		1.6 Kg (4.0	IDS)		1.0 K	g (4.0 lbs)	
urrent Drain (High Power)		0.01 Å m			0.0	1.4 may	
andby x @ Rated Audio	0.81 A max 2 A max			0.81 A max 2 A max			
			14.5 A max				
@ Rated Audio		14.5 A max		14.5 A max 13.8 VDC			
ower Supply		13.8 VD			1		
CC Description		1-40W: ABZ99FT4083	1-25W : ABZ99FT3083	1-25W : ABZ99FT4081	1-40W: ABZ99FT408		
	25-40W : ABZ99FT4080		25-45W : ABZ99FT3082	25-40 W : ABZ99FT4080		5-45 W : ABZ99FT3082	
eceiver							
	100, 170, 1411	150 540 1411	100 171 141	400.470.1411	450 540 1411	100 171 141	
equencies	403-470 MHz	450-512 MHz	136-174 MHz	403-470 MHz	450-512 MHz	136-174 MHz	
annel Spacing		12.5 kHz/ 25		+		Hz/ 25 kHz	
equency Stability		+/- 1.5 ppm (XiR				n (XiR M8220)	
0° C, +60° C, +25° C)		+/- 0.5 ppm (XiR M8268)			+/- 0.5 ppm (XiR M8228)		
alog Sensitivity	0.3 uV (12 dB SINAD)			0.3 uV (12 dB SINAD)			
	0.4 uV (20 dB SINAD)			0.4 uV (20 dB SINAD)			
	0.22 uV (typical)			0.22 uV (typical)			
igital Sensitivity		5% BER: 0.	3 uV		5% BE	R: 0.3 uV	
termodulation							
A603C	75 d	в	78 dB	75	dB	78 dB	
rs	60 d		60 dB	60		60 dB	
djacent Channel Selectivity	00 0	60 dB @ 12.			60 dB @ 12.5 kH		
IA603, ETS)		70 dB @ 25			70 dB @ 25 kH		
		70 UB @ 25	NIIZ	+	70 UD @ 20 KH	<u> </u>	
ourious Rejection			Q0 -10	75 dB		00-10	
A603C	75 dB		80 dB			80 dB	
S	70 d		70 dB	70 dB		70 dB	
Rated Audio	3 W (Internal)			3 W (Internal)			
	7.5 W (External - 8 ohms)			7.5 W (External - 8 ohms)			
	13 W (External - 4 ohms)			13 W (External - 4 ohms)			
idio Distortion @ Rated Audio		3% (typical) -40 dB @ 12.5 kHz			3% (typical)		
um and Noise					-40 dB @ 12.5 kHz		
		-45 dB @ 25 kHz			-45 dB @ 25 kHz		
udio Response		+ 1, -3 dB			+ 1, -3 dB		
onducted Spurious Emission		-57 dBm			-57 dBm		
ansmitter							
equencies	403-470 MHz	450-512 MHz	136-174 MHz	403-470 MHz	450-512 MHz	136-174 MHz	
ower Output							
ow Power	1-25 W	1-40 W	1-25 W	1-25 W	1-40 W	1-25 W	
gh Power	25-40 W	1 40 11	25-45 W	25-40 W	1 40 11	25-45 W	
annel Spacing	25-40 VV	12.5 kHz/ 25		20-+0 VV	10 F U		
				12.5 kHz/ 25 kHz			
equency Stability		+/- 1.5 ppm (XiF		+/- 1.5 ppm (XiR M8220)			
30° C, +60° C, +25° C)		+/- 0.5 ppm (XiR M8268)		+/- 0.5 ppm (XiR M8228)			
odulation Limiting	+/- 2.5 kHz @ 12.5 kHz			+/- 2.5 kHz @ 12.5 kHz			
	+/- 5.0 kHz @ 25 kHz			+/- 5.0 kHz @ 25 kHz			
FM Hum and Noise	-40 dB @ 12.5 kHz				-40 dB @ 12.5 kHz		
	-45 dB @ 25 kHz			-45 dB @ 25 kHz			
onducted / Radiated Emission	-36 dBm < 1 GHz			-36 dBm < 1 GHz			
	-30 dBm > 1 GHz			-30 dBm > 1 GHz			
Adjacent Channel Power	-60 dB @ 12.5 kHz			-60 dB @ 12.5 kHz			
	-70 dB @ 25 kHz			-70 dB @ 25 kHz			
udio Response	+1, -3 d				+1, -3 dB		
udio Distortion		3%		3%			
/ Modulation		12.5 kHz : 11K0F3E			12.5 kHz : 11K0F3E		
AFRK Distal Marketster	25 kHz: 16K0F3E			25 kHz: 16K0F3E			
SK Digital Modulation	12.5 kHz Data Only: 7K60FXD			12.5 kHz Data Only: 7K60FXD			
	12.5 kHz Data & Voice: 7K60FXE			12.5 kHz Data & Voice: 7K60FXE			
gital Vocoder Type		AMBE+2 TM			AMBE+2 [™]		
gital Protocol		ETSI-TS102 361-1			ETSI-TS102 361-1		
rs				Environmental Specific			
Accuracy specs are for long-term tracking (95th percentile values > 5 satellites visible at a nominal -130 dBm signal strength)				Operating Temperature	-30°	C / +60° C	
IFF (Time To First Fix) Cold Start < 1 minute				Storage Temperature	-40°	C / +85° C	
TTFF (Time To First Fix) Hot Start < 10 seconds				Thermal Shock	Per N	VIL-STD	
Horizontal Accuracy < 10 meters				Humidity		VIL-STD	
				ESD		301-2KV	
				Water Intrusion		60529 - IP57	
Specifications subject to change without no							

Packaging Test

MIL-STD 810D and E

Conforms to EC 1999/6/EC (R&TTE - Radio and Telecommunications Terminal Equipment) EN 300 060 EN 300 113



www.motorola.com MOTOROLA and the Stylized M Logo are trademark of Motorola, Inc. All other product or service names are property of their respective owners. ©2009 Motorola. All rights reserved. AC3-01-17 Rev.4