



THE FUTURE OF BUSINESS COMMUNICATION, DELIVERED TODAY

MOTOTRBO™XPR™6100 DIGITAL TWO-WAY PORTABLE RADIO

Make technology more productive and personal. You asked for a forward-thinking way to connect your people to their work, wherever they go. An innovative business tool that increases their efficiency while lowering your costs. Versatile and powerful, MOTOTRBO combines the best of two-way radio functionality with the latest digital technology. With increased capacity, exceptional voice quality and long battery life, MOTOTRBO keeps your work teams connected when communication is a must.

HIGH-POWERED PERFORMANCE

Because MOTOTRBO uses TDMA digital technology, it delivers twice the calling capacity plus clearer voice communications. When it comes to battery performance, MOTOTRBO radios operate 40 percent longer between

recharges compared to analog. In fact, the leading-edge IMPRES™ technology in our batteries, chargers and audio accessories also ensures longer talk time and clearer audio.

MIGRATE AT YOUR OWN PACE

Keeping operations running smoothly during a change in communication systems is vital to your business. It's easy to migrate to digital with MOTOTRBO because radios operate in analog and digital mode while the dynamic mixed mode repeater functionality streamlines automatic switching between analog and digital calls. So you can begin using MOTOTRBO radios and repeaters on your existing analog system, and when your time and budget allow you can begin migrating to digital at your own pace.

RELIABLE DURABILITY

MOTOTRBO meets the most demanding specs, including U.S. Military 810 C, D, E, F and G as well as Motorola standards for durability and reliability. The XPR 6100 is backed by a two-year Standard Warranty and minimum 1-year warranty for accessories.

PRODUCT SPEC SHEET

MOTOTRBO™ XPR™ 6100 PORTABLE RADIO*

	NON-DISPLAY XPR 6100			MILITARY STANDARDS: NON-DISPLAY XPR 6100					
	VHF	UHF Band I	UHF Band II	810E			810F		
Channel Capacity		32		Applicable MIL-STD	Methods	Procedures	Methods	Procedures	
Frequency	136-174 MHz	403-470 MHz	450-512 MHz	Low Pressure	500.3	II	500.4	II	
				High Temperature	501.3	I/A, II/A1	501.4	I/Hot, II/Ho	
Dimensions	5.18 in H x 2.5 in W x 1.39 in L (131.5 mm H x 63.5 mm W x 35.2 mm L)		9 in L	Low Temperature	502.3	I/C3, II/C1	502.4	I/C3, II/C1	
			V x 35.2 mm L)	Temperature Shock	503.3	I/A, 1C3	503.4	1	
Weight (with IMPRES Li-lon 1500 mAh Battery) (with IMPRES Li-lon 2150 mAh Battery)	11.63 oz (330 g) 12.12 oz (345 g)			Solar Radiation	505.3	1	505.4	1	
Power Supply	7.5 V nominal		Rain	506.3	1, 11	506.4	I, III		
FCC Description	AZ489FT3815	AZ489FT4876	AZ489FT4884	Humidity	507.3	Ш	507.4	-	
IC Description	109U-89FT3815	109U-89FT4876	109U-89FT4884	Salt Fog	509.3	1	50.94	1	
Average battery life at 5/5/90 duty cycle with battery saver enabled in carrier squelch and transmitter in high power.				Dust	510.3	1	510.4	1	
IMPRES Li-lon 1500 mAh Battery		Analog: 9 hrs		Vibration	514.4	I/10, II/3	514.5	1/24	
		Digital: 13 hrs		Shock	516.4	I, IV	516.5	I, IV	
IMPRES Li-lon 2150 mAh Battery	Analog: 13.5 hrs			ENVIRONMENTAL S	SPECIFICATIONS: NON-DISPLAY XPR 6100				
	Digital: 19 hrs		Operating Temperature	-30° C / +60° C***					
RECEIVER: NON-DISPLAY XPR 6100			Storage Temperature	-40° C / +85° C					
Frequencies	136-174 MHz	403-470 MHz	450-512 MHz	Thermal Shock	Per MIL-STD				
Channel Spacing	12.5 kHz / 25 kHz**			Humidity	Per MIL-STD				
Frequency Stability (-30° C, +60° C, +25° C)	+/- 0.5 ppm			ESD	IEC-801-2KV				
Analog Sensitivity (12dB SINAD)		0.35 uV 0.22 uV (typical)		Dust and Water Intrusion	IEC 60529 - IP54				
Digital Sensitivity		5% BER: 0.3 uV		Packaging Test	MIL-STD 810D and E				
Intermodulation (TIA603C)	70 dB			Testing completed using portable radio with attached battery and antenna.					
Adjacent Channel Selectivity TIA603 TIA603C	60 dB @ 12.5 kHz, 70 dB @25 kHz** 45 dB @ 12.5 kHz, 70 dB @25 kHz**			*The XPR 6100 supports a subset of the Analog and Digital features available in higher tier models. Please consult your Motorola Solutions representative for more details.					
Spurious Rejection (TIA603C)		70 dB		**25 kHz will not be available on new equipment in the U.S. after 1/1/2013. ***Radio only. Li-lon battery -10° C. Specifications subject to change without notice. All specifications shown are typical.					
Rated Audio		500 mW							
Audio Distortion @ Rated Audio		3% (typical)		Radio meets applicable regulatory requirements. Version 1 01/12					
Hum and Noise		-40 dB @ 12.5 kHz							
	-45 dB @ 25 kHz**								
Audio Response	TIA603C								
Conducted Spurious Emission (TIA603C)		-57 dBm							
TRANSMITTER: NON-DISPLAY XPR 6	100								
Frequencies	136-174 MHz	403-470 MHz	450-512 MHz						
Channel Spacing		12.5 kHz / 25 kHz**							
Frequency Stability (-30° C, +60° C, +25° C Ref.)	+/- 0.5 ppm								
Low Power Output	1 W	1 W	1 W						
High Power Output	5 W	4 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 / Radiated Emission		-36 dBm < 1 GHz -30 dBm > 1 GHz							

For more information on how to make your business more efficient and better connected, visit **www.motorola.com/mototrbo**.

-30 dBm > 1 GHz

60 dB @ 12.5 kHz 70 dB @ 25 kHz** TIA603C

12.5 kHz: 11K0F3E 25 kHz*: 16K0F3E

AMBE +2™

12.5 kHz Data Only: 7K60FXD 12.5 kHz Data & Voice: 7K60FXE

ETSI TS 102 361-1, -2, -3

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Adjacent Channel Power

Audio Response

Audio Distortion

FM Modulation

4FSK Digital Modulation

Digital Vocoder Type

Digital Protocol