



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*

GENERAL SPECIFICATIONS

	NON-DISPLAY XPR 6100			MILITARY STANDARDS: NON-DISPLAY XPR 6100			
	VHF	UHF Band I	UHF Band II			810E	
Channel Capacity		32		Applicable MIL-STD	Methods	Procedures	Methods
Frequency	136-174 MHz	403-470 MHz	450-512 MHz	Low Pressure	500.3	II	500.4
				High Temperature	501.3	I/A, II/A1	501.4
Dimensions		5.18 in H x 2.5 in W x 1.3		Low Temperature	502.3	I/C3, II/C1	502.4
		(131.5 mm H x 63.5 mm \	V x 35.2 mm L)	Temperature Shock	503.3	I/A, 1C3	503.4
Weight (with IMPRES Li-Ion 1500 mAh Battery) (with IMPRES Li-Ion 2150 mAh Battery)	11.63 oz (330 g) 12.12 oz (345 g)			Solar Radiation	505.3	I	505.4
Power Supply		7.5 V nominal		Rain	506.3	1, 11	506.4
FCC Description	AZ489FT3815	AZ489FT4876	AZ489FT4884	Humidity	507.3	II	507.4
IC Description	109U-89FT3815	109U-89FT4876	109U-89FT4884	Salt Fog	509.3	1	50.94
Average battery life at 5/5/90 duty cycle with battery	attery saver enabled in carrie	er squelch and transmitter in h	igh power.	Dust	510.3	1	510.4
IMPRES Li-lon 1500 mAh Battery		Analog: 9 hrs		Vibration	514.4	I/10, II/3	514.5
		Digital: 13 hrs		Shock	516.4	I, IV	516.5
IMPRES Li-lon 2150 mAh Battery	Analog: 13.5 hrs			ENVIRONMENTAL 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	0.35 uV			Dust and Water	IEC 60529 - IP54		
(12dB SINAD)	0.22 uV (typical)			Intrusion			
Digital Sensitivity	5% BER: 0.3 uV			Packaging Test	MIL-STD 810D and E		
Intermodulation (TIA603C)	70 dB			Testing completed using p	ng 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 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.			
Rated Audio	500 mW						
Audio Distortion @ Rated Audio	3% (typical)			Specifications subject to change without notice. All specifications shown are typi Radio meets applicable regulatory requirements. Version 1 01/12			
Hum and Noise	-40 dB @ 12.5 kHz			Tradio modes appricable regulatory requirements. Version 1 - 01/12			
	-45 dB @ 25 kHz**						
Audio Response	TIA603C						
Conducted Spurious Emission (TIA603C)		-57 dBm					
TRANSMITTER: NON-DISPLAY XPR	6100						
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					
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						
Adjacent Channel Power	60 dB @ 12.5 kHz 70 dB @ 25 kHz**						
Audio Response		TIA603C					
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™					
Digital Protocol		ETSI TS 102 361-1, -2, -3					

*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

810F

Procedures

I/Hot, II/Hot

I/C3, II/C1

I, III

1/24

I, IV

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

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^{***}Radio only. Li-lon battery -10° C.