



DIGITAL, NOW WITHIN REACH

MOTOTRBO™ XiR™ P6600 SERIES DIGITAL TWO-WAY PORTABLE RADIOS



Monitoring supply needs on a manufacturing line or reporting an emergency on school grounds, how do you keep employees connected and students safe? MOTOTRBO digital radio solutions can help by putting the power of digital communications within reach.

Versatile and powerful, MOTOTRBO combines the best of two-way radio functionality with the latest digital technology. XiR P6600 Series radios offer best-in-class audio in a scalable solution to meet your communication needs. Because they are also analog interoperable, you can make the transition to digital at your own pace and budget.

The XiR P6600 Series radios can remaster your workplace and the way people collaborate to help you achieve even greater productivity, safety and cost-effectiveness.

PRODUCT SPEC SHEET

MOTOTRBO™ XiR P6600 SERIES PORTABLE RADIOS



INDUSTRY-LEADING AUDIO

When it comes to exceptional audio clarity, the quality of digital can't be denied. With the XiR P6600 Series portables, you get digital quality throughout your coverage area plus unique features to help your employees hear and speak clearly, wherever they work.

With Intelligent Audio, the radio volume automatically adjusts to compensate for background noise. Now, workers don't have to adjust their radio volume to avoid missing a call in loud situations or disturbing others when they move into quiet places. Increased background noise suppression filters out unwanted external clamor – from the rumble of forklifts to the buzz of school hallways. And IMPRES™ audio accessories enhance noise suppression and improve voice intelligibility for smarter audio than they've ever experienced before.

HIGH-POWERED PERFORMANCE

Because the XiR P6600 Series uses TDMA digital technology, it delivers twice the calling capacity plus clearer voice communications. When it comes to battery performance, these radios operate up to 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.

The XiR P6600 Series offers plenty of features to make workers more efficient. Voice announcement provides audible confirmation so they can be notified of channel and zone changes as well as programmable button features without having to view the radio display. The display and easy to use navigation menu makes the radio intuitive to use so they can stay focused on the job at hand - from the hotel receptionist confirming rooms to high school security covering an event.

MIGRATE AT YOUR OWN PACE

Keeping operations running smoothly during a change in communication systems is vital to your operation. It's easy to migrate to digital because the XiR P6600 Series 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, move to digital at your own pace.

DAY-IN, DAY-OUT DURABILITY

The XiR P6600 Series meets demanding specs, including IP55 for water protection and U.S. Military 810 C, D, E, F and G. It's backed by a two-year Standard Warranty and minimum one-year warranty for accessories.

XiR P6600 SERIES SPECIFICATIONS

GENERAL SPECIFICATIONS					
		DISPLAY XiR P6620		NON DISPLAY XiR P6600	
		VHF	UHF	VHF	UHF
Channel Capacity		256	256	16	16
Frequency		136-174MHz	403-527 MHz	136-174 MHz	403-527 MHz
Core NiMH (1300mAh) Battery	Height (H)	4.80 inch / 122 mm		4.80 inch / 122 mm	
	Width (W)	2.20 inch / 56 mm		2.20 inch / 56 mm	
	Thickness (T)	1.55 inch / 39.4 mm		1.55 inch / 39.4 mm	
	Weight	13.2 oz (375 g)		12.5 oz (355 g)	
IMPRES Hi-Cap Li-ion Non-FM (2150 mAh) Battery	Height (H)	4.80 inch / 122 mm		4.80 inch / 122 mm	
	Width (W)	2.20 inch / 56 mm		2.20 inch / 56 mm	
	Thickness (T)	1.64 inch / 41.7 mm		1.64 inch / 41.7 mm	
	Weight	10.8 oz (305 g)		10.0 oz (285 g)	
IMPRES Li-ion Slim (1500 mAh) Battery	Height (H)	4.80 inch / 122 mm		4.80 inch / 122 mm	
	Width (W)	2.20 inch / 56 mm		2.20 inch / 56 mm	
	Thickness (T)	1.43 inch / 36.4 mm		1.43 inch / 36.4 mm	
	Weight	10.0 oz (285 g)		9.3 oz (265 g)	
Core Slim Li-ion (1500 mAh) Battery	Height (H)	4.80 inch / 122 mm		4.80 inch / 122 mm	
	Width (W)	2.20 inch / 56 mm		2.20 inch / 56 mm	
	Thickness (T)	1.43 inch / 36.4 mm		1.43 inch / 36.4 mm	
	Weight	10.0 oz (285 g)		9.3 oz (265 g)	
Power Supply		7.5 V (Nominal)			
Operating Temperature		-30°~ +60° C			
FCC Description		ABZ99FT3088	ABZ99FT4089	ABZ99FT3088	ABZ99FT4089
IC Description		109AB-99FT3088	109AB-99FT4089	109AB-99FT3088	109AB-99FT4089
Core NiMH (1300 mAh) Battery	Analog: 7 hrs		Analog: 7 hrs		
	Digital: 10 hrs		Digital: 10 hrs		
IMPRES SLIM Li-ion (1500 mAh) Battery Core Slim Li-ion (1500 mAh) Battery	Analog: 8 hrs		Analog: 8 hrs		
	Digital: 11.5 hrs		Digital: 11.5 hrs		
IMPRES Hi-Cap Li-ion Non-FM (2150 mAh) Battery	Analog: 11.5 hrs		Analog: 11.5 hrs		
	Digital: 16.5 hrs		Digital: 16.5 hrs		

Average battery life at 5/5/90 duty cycle with carrier squelch and transmitter in high power.

MILITARY STANDARDS: DISPLAY & NON-DISPLAY											
		810C		810D		810E		810F		810G	
APPLICABLE MIL-STD	METHOD	PROCEDURES	METHOD	PROCEDURES	METHOD	PROCEDURES	METHOD	PROCEDURES	METHOD	PROCEDURES	
Low Pressure	500.1	I	500.2	II	500.3	II	500.4	II	500.5	II	
High Temperature	501.1	I, II	501.2	I/A1, II/A1	501.3	I/A1, II/A1	501.4	I/Hot, II/Hot	501.5	I-A1, II	
Low Temperature	502.1	I	502.2	I/C3, II/C1	502.3	I/C3, II/C1	502.4	I-C3, II/C1	502.5	I, II	
Temperature Shock	503.1	-	503.2	I/A1/C3	503.3	I/A1/C3	503.4	I	503.5	I-C	
Solar Radiation	505.1	II	505.2	I	505.3	I	505.4	I	505.5	I-A1	
Rain	506.1	I, II	506.2	I, II	506.3	I, II	506.4	I, III	506.5	I, III	
Humidity	507.1	II	507.2	II	507.3	II	507.4	-	507.5	II	
Salt fog	509.1	-	509.2	-	509.3	-	509.4	-	509.5	-	
Dust	510.1	I	510.2	I	510.3	I	510.4	I	510.5	I	
Vibration	514.2	VIII/F, Curve-W	514.3	I/10, II/3	514.4	I/10, II/3	514.5	I/24	514.6	I-cat 24, II/5	
Shock	516.2	I, II	516.3	I, IV	516.4	I, IV	516.5	I, IV	516.6	I, IV, VI	

PRODUCT SPEC SHEET

MOTOTRBO™ XiR P6600 SERIES PORTABLE RADIOS

RECEIVER		
	VHF	UHF
Frequencies	136-174 MHz	403-527 MHz
Channel Spacing	12.5/25 kHz	
Frequency Stability	± 0.5 ppm	
Analog Sensitivity (12dB SINAD) Typical	0.3uV 0.22uV (typical)	
Digital Sensitivity	0.25 uV (0.19 uV typical)	
Intermodulation (TIA603D)	70 dB	
Adjacent Channel Selectivity (TIA603A)-1T	60dB @ 12.5kHz / 70dB @ 25 kHz	
Adjacent Channel Selectivity (TIA603D)-2T	45dB @ 12.5kHz / 70dB @ 25 kHz	
Spurious Rejection (TIA603D)	70 dB	
Rated Audio	0.5W	
Audio Distortion @ Rated Audio	5% 3% (typical)	
Hum and Noise	-40dB @ 12.5kHz / -45dB @ 25 kHz	
Audio Response	TIA603D	
Conducted Spurious Emission (TIA603D)	-57 dBm	

ENVIRONMENTAL SPECIFICATIONS: DISPLAY XiR P6620 & NON-DISPLAY XiR P6600

Operating Temperature	-30° C / +60° C
Storage Temperature	-40° C / +85° C
Thermal Shock	Per MIL-STD
Humidity	Per MIL-STD
ESD	IEC 61000-4-2 Level 3
Dust and Water Intrusion	IEC60529 - IP55
Packaging test	MIL-STD 810D and E

Testing completed using portable radio with attached battery and antenna.

TRANSMITTER		
	VHF	UHF
Frequencies	136-174 MHz	403-527 MHz
Channel Spacing	12.5/25kHz	
Frequency Stability	± 0.5 ppm	
Low Power Output	1W	1W
High Power Output	5W	4W
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	TIA603D	
Audio Distortion	3%	
4FSK Digital Modulation	12.5kHz Data: 7K60F1D & 7K60FXD	
	12.5kHz Voice: 7K60F1E & 7K60FXE	
	Combination of 12.5 kHz Voice and Data: 7K60F1W	
Digital Vocoder Type	AMBE+2™	
Digital Protocol	-ETSI TS 102 361 -1,-2,-3	

Please contact your Motorola sales representative for battery runtime expectations based on your specific radio configuration.

Specifications subject to change without notice. All specifications shown are typical.

Radio meets applicable regulatory requirements.

For more information on how to reach it all with digital,
visit motorolasolutions.com/mototrbo

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MOTOTRBO
DIGITAL
REMASTERED.



YOUR VOICE JUST GOT STRONGER

MOTOTRBO™ XiR™ P8600 SERIES DIGITAL TWO-WAY PORTABLE RADIOS



From the factory worker building components to the road crew making repairs, MOTOTRBO can transform your enterprise and make employee interactions smarter and safer. Our best-in-class audio and unrivaled data capabilities empower people like never before.

Versatile and powerful, MOTOTRBO combines the best of two-way radio functionality with the latest digital technology. XiR P8600 Series radios integrate voice and data seamlessly, offer enhanced features that are easy to use, and deliver business-critical advantages like integrated Bluetooth® and Intelligent Audio.

The XiR P8600 Series can remaster your workplace and the way people collaborate to help you achieve even greater efficiency.

PRODUCT SPEC SHEET

MOTOTRBO™ XiR P8600 SERIES PORTABLE RADIOS

AUDIO BEYOND EXPECTATIONS

When it comes to exceptional audio clarity, the quality of digital can't be denied. XiR P8600 Series portables give you digital audio performance throughout your coverage area plus unique features to help your employees hear and speak clearly, wherever they work.

With Intelligent Audio, the radio volume automatically adjusts to compensate for background noise so workers don't have to adjust their radio volume to avoid missing a call in loud situations or disturb others when they move into quiet areas. Increased background noise suppression helps filter out unwanted external clamor – from heavy equipment to the roar of engines.

Bluetooth® audio is embedded right in the radio, so no adapter is needed when using wireless accessories. Also, IMPRES™ audio accessories enhance noise suppression and improve voice intelligibility for smarter accessories than they've ever experienced before.

INDUSTRY-LEADING DATA

XiR P8600 Series radios feature integrated Bluetooth® data, so rather than waiting until the end of a shift, busy work crews can send real time information back to the office, saving valuable hours and enabling better decision making. Integrated GPS enables location tracking of mobile work teams and text messaging enables communication when voice isn't feasible. And the large, full-color, 5-line display operates in day or night mode, for easy viewing of contact lists, text messages and work order tickets even in bright sunlight.

MOTOTRBO's Application Developer Program offers customized data applications so you can adapt your radios to your business challenges. With the largest developer program in the industry, data applications help meet your objectives – from work order ticket management to telephony integration, and more.

HIGH-POWERED PERFORMANCE

Because MOTOTRBO uses TDMA digital technology, you get integrated voice and data, twice the calling capacity and clearer voice communications. When it comes to battery performance, MOTOTRBO radios operate up to 40 percent longer between recharges compared to analog.

RICH FUNCTIONALITY

XiR P8600 Series radios offer plenty of features businesses seek – including enhanced call signaling, basic and enhanced privacy-scrambling, option board expandability and the transmit interrupt suite to prioritize critical

communication the moment you need it. Programmable button features appear on the display for easy viewing and quick access. And when workers can't be distracted, customizable voice announcement provides audible confirmation of channel and zone changes as well as programmable button features, eliminating the need to view the display.

EXPANDED CAPACITY AND COVERAGE

Your workforce is hard at work every day – picking up loads, making road repairs, providing security, responding to guest requests or restoring power after a storm.

IP Site Connect helps to dramatically improve customer service and productivity by using the Internet to extend coverage to create a wide area network, enhance single site coverage or link geographically dispersed locations. Capacity Plus single-site trunking expands capacity to over 1,000 users without having to add new frequencies. Linked Capacity Plus combines the expanded capacity of Capacity Plus with the wide area coverage of IP Site Connect, delivering a high capacity, wide area, and cost effective multi-site trunking solution. So whether you want coverage at a single site or across multiple ones, MOTOTRBO can be scaled to your business and budget.

MIGRATE AT YOUR OWN PACE

Keeping operations running smoothly during a change in communication systems is vital to any business. It's easy to migrate to digital with XiR P8600 Series radios because they operate in analog and digital mode. To ease the transition even further, 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, move to digital at your own pace.

DAY-IN, DAY-OUT DURABILITY

XiR P8600 Series radios meet the most demanding specs, including IP57 for water submersibility and U.S. Military 810 C, D, E, F, & G standards for exceptional durability. The radio is also "intrinsically safe" when purchased and equipped with an intrinsically safe (FM) battery, for use in environments where flammable gas, vapors or combustible dust may be present. And it's backed by a two-year Standard Warranty, and 1-year warranty for batteries and accessories.



KEEP YOUR BUSINESS RUNNING SMOOTHLY WITH BUSINESS APPLICATIONS:

-  **Location tracking:** Monitor the whereabouts of mobile workers so they can respond immediately; in an emergency, you can pinpoint security personnel and send the nearest to the scene
-  **Integrated Bluetooth®** for sharing data wirelessly and instantly between devices
-  **Dispatch consoles** for centralized communication
-  **Email gateways** to connect to email from your radio
-  **Network monitoring** to maximize system utilization
-  **Man-down applications** so radios call for help when workers can't
-  **Telephony** for communication between radios and landline or mobile phones
-  **Text messaging** for quick and discreet communication
-  **Work order tickets** for faster customer response

PRODUCT SPEC SHEET

MOTOTRBO™ XiR P8600 SERIES PORTABLE RADIOS

XiR P8600 SERIES SPECIFICATIONS

GENERAL SPECIFICATIONS					
		DISPLAY XiR P8668/P8660/P8628/P8620		NON DISPLAY XiR P8608/P8600	
		VHF	UHF	VHF	UHF
Channel Capacity		1000		32	
Frequency		136-174 MHz	403-527 MHz	136-174 MHz	403-527 MHz
IMPRES Hi-Cap Li-ion 2150 mAh Battery (PMNN4409)	(HxWxL)	5.13 inch / 2.17 inch / 1.62 inch (130.3 mm / 55.2 mm / 41.1 mm)		5.13 inch / 2.17 inch / 1.56 inch (130.3 mm / 55.2 mm / 39.6 mm)	
	Weight	12.54 oz (355.5 g)		11.39 oz (323 g)	
Slim IMPRES Li-ion 1500 mAh Battery (PMNN4407)	(HxWxL)	5.13 inch / 2.17 inch / 1.41 inch (130.3 mm / 55.2 mm / 35.8 mm)		5.13 inch / 2.17 inch / 1.35 inch (130.3 mm / 55.2 mm / 34.3 mm)	
	Weight	11.83 oz (335.5 g)		10.69 oz (303 g)	
IMPRES Hi-Cap Li-ion FM 2300 mAh Battery (NNTN8129)	(HxWxL)	5.13 inch / 2.17 inch / 1.62 inch (130.3 mm / 55.2 mm / 41.1 mm)		5.13 inch / 2.17 inch / 1.56 inch (130.3 mm / 55.2 mm / 39.6 mm)	
	Weight	12.89 oz (365.5 g)		11.75 oz (333 g)	
Power Supply		7.5 V (Nominal)			
Operating Temperature		-30 ~ +60 °C ¹			
FCC Description		ABZ99FT3085	ABZ99FT4086	ABZ99FT3085	ABZ99FT4086
IC Description		109AB-99FT3085	109AB-99FT4086	109AB-99FT3085	109AB-99FT4086

BATTERY		
Average Battery Life	5/5/90 duty cycle with carrier squelch and transmitter in high power ²	
Slim IMPRES Li-ion 1500 mAh Battery	Analog: 7.7 hrs/ Digital: 11.3 hrs	Analog: 8 hrs/ Digital: 11.8 hrs
IMPRES Hi-Cap Li-ion 2150 mAh Battery	Analog: 11.1 hrs/Digital: 16.2 hrs	Analog: 11.5 hrs/Digital: 17 hrs
IMPRES Hi-Cap Li-ion FM 2300 mAh Battery	Analog: 11.9 hrs/Digital: 17.3 hrs	Analog: 12.3 hrs/Digital: 18.1 hrs

RECEIVER		
	VHF	UHF
Frequencies	136-174 MHz	403-527 MHz
Channel Spacing	12.5/25kHz	
Frequency Stability (-30°C, +60°C, +25°C Ref)	± .5 ppm	
Analog Sensitivity (12dB SINAD)	0.3uV (0.22uV typical)	
Digital Sensitivity	0.25 uV (0.19 uV typical)	
Intermodulation (TIA603D)	70 dB	
Adjacent Channel Selectivity (TIA603A)-1T	60dB @ 12.5 kHz / 70dB @ 25 kHz ³	
Adjacent Channel Selectivity (TIA603D)-2T	45dB @ 12.5 kHz / 70dB @ 25 kHz ³	
Spurious Rejection (TIA603D)	70 dB	
Rated Audio	0.5W	
Audio Distortion @ Rated Audio	5% (3% typical)	
Hum and Noise	-40dB @ 12.5 kHz / -45dB @ 25 kHz ³	
Audio Response	TIA603D	
Conducted Spurious Emission (TIA603D)	-57dBm	

TRANSMITTER		
	VHF	UHF
Frequencies	136-174 MHz	403-527 MHz
Channel Spacing	12.5/25 kHz	
Frequency Stability	± 1.5 ppm	
Low Power Output	1W	1W
High Power Output	5W	4W
Modulation Limiting	± 2.5kHz @ 12.5 kHz / ± 5.0kHz @ 25 kHz ³	
FM Hum and Noise	-40dB @ 12.5 kHz / -45dB @ 25 kHz ³	
Conducted/Radiated Emission	-36 dBm < 1GHz / -30 dBm > 1GHz	
Adjacent Channel Power	60dB @ 12.5 kHz / 70dB @ 25 kHz ³	
Audio Response	TIA603D	
Audio Distortion	3%	
4FSK Digital Modulation	12.5 kHz Data: 7K60F1D & 7K60FXD	
	12.5 kHz Voice: 7K60F1E & 7K60FXE	
	Combination of 12.5 kHz Voice & Data: 7K60F1W	
Digital Vocoder Type	AMBE+2™	
Digital Protocol	ETSI TS 102 361-1, -2, -3	

PRODUCT SPEC SHEET

MOTOTRBO™ XiR P8600 SERIES PORTABLE RADIOS

GPS

Accuracy specs are for long-term tracking (95th percentile values >5 satellites visible at nominal -130 dBm signal strength)

TTFF (Time To First Fix) - Cold Start < 60 seconds

TTFF (Time To First Fix) - Hot Start < 10 seconds

Horizontal Accuracy < 5 meters

BLUETOOTH

Version Supports Bluetooth® 2.1 + EDR Specification

Range Class 2, 10 meters

FACTORY MUTUAL APPROVALS

MOTOTRBO XiR P8600 Series portable radios have been certified by FM in accordance with U.S. Codes as intrinsically safe for use in Class I, II, III, Division 1, Groups C, D, E, F, G, when properly equipped with a Motorola FM approved battery option. They are also approved for use in Class I, Division 2, Groups A, B, C, D.

MILITARY STANDARDS

APPLICABLE MIL-STD	810C		810D		810E		810F		810G	
	METHOD	PROCEDURES	METHOD	PROCEDURES	METHOD	PROCEDURES	METHOD	PROCEDURES	METHOD	PROCEDURES
Low Pressure	500.1	I	500.2	II	500.3	II	500.4	II	500.5	II
High Temperature	501.1	I, II	501.2	I/A1, II/A1	501.3	I/A1, II/A1	501.4	I/Hot, II/Hot	501.5	I-A1, II
Low Temperature	502.1	I	502.2	I/C3, II/C1	502.3	I/C3, II/C1	502.4	I-C3, II/C1	502.5	I, II
Temperature Shock	503.1	-	503.2	I/A1/C3	503.3	I/A1/C3	503.4	I	503.5	I-C
Solar Radiation	505.1	II	505.2	I	505.3	I	505.4	I	505.5	I-A1
Rain	506.1	I, II	506.2	I, II	506.3	I, II	506.4	I, III	506.5	I, III
Humidity	507.1	II	507.2	II	507.3	II	507.4	-	507.5	II
Salt fog	509.1	-	509.2	-	509.3	-	509.4	-	509.5	-
Dust	510.1	I	510.2	I	510.3	I	510.4	I	510.5	I
Vibration	514.2	VIII/F, Curve-W	514.3	I/10, II/3	514.4	I/10, II/3	514.5	I/24	514.6	II/5
Shock	516.2	I, II	516.3	I, IV	516.4	I, IV	516.5	I, IV	516.6	I, IV, VI

ENVIRONMENTAL SPECIFICATIONS

Operating Temperature -30° C / +60° C

Storage Temperature -40° C / +85° C

Thermal Shock Per MIL-STD

Humidity Per MIL-STD

ESD IEC 61000-4-2 Level 3

Dust and Water Intrusion IEC 60529 - IP57

Packaging test MIL-STD 810D and E

Testing completed using portable radio with attached battery and antenna.

¹ Radio only - Li-Ion battery -10C

² Actual battery runtime observed may vary based on the use of certain features such as GPS, Bluetooth, and Expansion Card based applications.

Please contact your Motorola sales representative for battery runtime expectations based on your specific radio configuration.

For more information on how to strengthen your portable voice, visit motorolasolutions.com/mototrbo

Specifications subject to change without notice. All specifications shown are typical.

Radio meets applicable regulatory requirements.

Motorola Solutions Singapore Pte Ltd 12 Ang Mo Kio Street 64, Ang Mo Kio Industrial Park 3, UE Biz Hub, Block A, Level 7 Singapore 569088

motorolasolutions.com

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MOTOTRBO
DIGITAL
REMASTERED.





MOTOTRBO™

XiR P8260/P8268/P8200/P8208 Portable Radios



Portable radios available in Display and Non-Display, **GPS and Non-GPS models**

Uses Time-Division Multiple-Access (TDMA) digital technology which **doubles the number of users** on a single licensed 12.5 kHz channel

Supports **integrated applications** including MOTOTRBO Text Messaging Services and MOTOTRBO Location Services

Provides **clearer voice communications** throughout the coverage area

Up to **40 percent longer** battery life between recharges

Enables additional functionality including dispatch data, and enhanced call signaling



Enhanced call management features include call alert, emergency, remote monitor, push-to-talk ID, radio check, private call, all call, radio disable

Emergency button alerts supervisor or dispatcher in an emergency situation

XiR P8268 can **transmit location coordinates** with an emergency call

Integrates voice and data to increase operational efficiency

Send short free-form and quick **text messaging** via programmable buttons

XiR P8260/P8268 contacts list allows up to **256 contacts**

Allows an **easy migration** from analog to digital with the ability to operate in both modes

Meets **IP57 submersibility** standard along with U.S. Military Standards 810 C, D, E, and F and Motorola standards for durability and reliability

Is **intrinsically safe** and can be used in locations where flammable gas, vapors or combustible dust may be present

Portable radios **meet FM approvals**. Approved FM battery option is a 1400 mAh slim Lilon FM battery

Accessory connector meets IP57 submersibility specifications, incorporates RF, and USB and utilises the IMPRES™ Audio System for **enhanced audio functionality**

Utilises Motorola's state-of-the art **IMPRES** technology—providing **longer talk times and clearer audio delivery**

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 P8260 Display Non GPS Model XiR P8268 Display GPS Model		XiR P8200 Non-Display Non-GPS Model XiR P8208 Non-Display GPS Model	
	UHF	VHF	UHF	VHF
Channel Capacity	160		32	
Frequency	403 - 470 MHz		136-174 MHz	
Dimension (HxWxD) w/ 1500 mAh Lilon Battery	131.5 x 63.5 x 35.2 mm			
Weight (with 1500 mAh Lilon Battery)	360g (12.7 oz)		360g (12.7 oz)	
(with 2200 mAh Lilon Battery)	361g (12.8 oz)		361g (12.8 oz)	
(with 1400 mAh Lilon FM Battery)	370g (13 oz)		370g (13 oz)	
Power Supply	7.2V nominal			
FCC Description	AZ489FT4876		AZ489FT3815	
Average battery life at 5/5/90 duty cycle with battery saver enabled in carrier squelch and transmitter in high power.				
IMPRES 1500 mAh Lilon Battery	Analog: 9 hrs Digital: 13 hrs		Analog: 9 hrs Digital: 13 hrs	
IMPRES 2200 mAh Lilon Battery	Analog: 13.5 hrs Digital: 19 hrs		Analog: 13.5 hrs Digital: 19 hrs	
IMPRES FM 1400 mAh Battery	Analog: 8.5 hrs Digital: 12 hrs		Analog: 8.5 hrs Digital: 12 hrs	

Receiver				
Frequencies	403-470 MHz		136-174 MHz	
Channel Spacing	12.5 kHz/ 25 kHz		12.5 kHz/ 25 kHz	
Frequency Stability	+/- 1.5 ppm (XiR P8260)		+/- 1.5 ppm (XiR P8200)	
(-30° C, +60° C, +25° C)	+/- 0.5 ppm (XiR P8268)		+/- 0.5 ppm (XiR P8208)	
Analog Sensitivity	0.35 uV (12 dB SINAD)		0.35 uV (12 dB SINAD)	
	0.4 uV (20 dB SINAD)		0.4 uV (20 dB SINAD)	
	0.22 uV (typical)		0.22 uV (typical)	
Digital Sensitivity	5% BER: 0.3 uV		5% BER: 0.3 uV	
Intermodulation				
TIA603C	70 dB		70 dB	
ETSI	65 dB		65 dB	
Adjacent Channel Selectivity	60 dB @ 12.5 kHz		60 dB @ 12.5 kHz	
	70 dB @ 25 kHz		70 dB @ 25 kHz	
Spurious Rejection	70 dB		70 dB	
Rated Audio	500 mW		500 mW	
Audio Distortion @ Rated Audio	3% (typical)		3% (typical)	
Hum and Noise	-40 dB @ 12.5 kHz		-40 dB @ 12.5 kHz	
	-45 dB @ 25 kHz		-45 dB @ 25 kHz	
Audio Response	+ 1, -3 dB		+ 1, -3 dB	
Conducted Spurious Emission	-57 dBm		-57 dBm	

Transmitter				
Frequencies	403-470 MHz		136-174 MHz	
Channel Spacing	12.5 kHz/ 25 kHz		12.5 kHz/ 25 kHz	
Frequency Stability	+/- 1.5 ppm (XiR P8260)		+/- 1.5 ppm (XiR P8200)	
(-30° C, +60° C, +25° C)	+/- 0.5 ppm (XiR P8268)		+/- 0.5 ppm (XiR P8208)	
Power Output				
Low Power	1W		1W	
High Power	4W		5W	
Modulation 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	
Conducted / Radiated Emission	-36 dBm < 1 GHz		-36 dBm < 1 GHz	
	-30 dBm > 1 GHz and < 4GHz		-30 dBm > 1 GHz and < 4GHz	
Adjacent Channel Power	-60 dB @ 12.5 kHz		-60 dB @ 12.5 kHz	
	-70 dB @ 25 kHz		-70 dB @ 25 kHz	
Audio Response	+1, -3 dB		+1, -3 dB	
Audio Distortion	3%		3%	
FM Modulation	12.5 kHz : 11K0F3E		12.5 kHz : 11K0F3E	
	25 kHz: 16K0F3E		25 kHz: 16K0F3E	
4FSK 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	
Digital Vocoder Type	AMBE+2™		AMBE+2™	
Digital Protocol	ETSI-TS102 361-1		ETSI-TS102 361-1	

GPS	
Accuracy specs are for long-term tracking (95th percentile values > 5 satellites visible at a nominal -130 dBm signal strength)	
TTF (Time To First Fix) Cold Start	< 1 minute
TTF (Time To First Fix) Hot Start	< 10 seconds
Horizontal Accuracy	< 10 meters

Factory Mutual Approvals
MOTOTRBO XiR Portable series radios have been certified by FM Approvals in accordance with Canada and U.S. Codes as intrinsically safe for use in Class I, II, III, Division 1, Groups C,D,E,F,G, when properly equipped with a Motorola FM approved battery option. They are also approved for use in Class I, Division 2, Groups A, B, C, D.

*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 300 086
EN 300 113

Environmental Specifications	
Operating Temperature	-30° C / +60° C
Storage Temperature	-40° C / +85° C
Thermal Shock	Per MIL-STD
Humidity	Per MIL-STD
ESD	IEC-801-2KV
Water Intrusion	IEC 60529 - IP57
Packaging Test	MIL-STD 810D and E



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AC3-04-029



PRODUCT SPEC SHEET

MOTOTRBO™ XiR™ M8600 SERIES MOBILE RADIOS



YOUR MOBILE VOICE JUST GOT STRONGER

MOTOTRBO™ XiR™ M8600 SERIES DIGITAL TWO-WAY MOBILE RADIOS

From the delivery driver crisscrossing the city to the sanitation crew clearing streets, MOTOTRBO™ can transform your enterprise and make employee interactions smarter and safer. Our best-in-class audio and exceptional data capabilities empower people like never before.

Versatile and powerful, MOTOTRBO™ combines the best of two-way radio functionality with the latest digital technology. XiR™ M8600 Series radios integrate voice and data seamlessly, offer enhanced features that are easy to use, and deliver operations-critical advantages like integrated Bluetooth® and Intelligent Audio.

The XiR™ M8600 Series can remaster your workplace and the way people collaborate to help you achieve even greater efficiency.

PRODUCT SPEC SHEET

MOTOTRBO™ XiR™ M8600 SERIES MOBILE RADIOS

AUDIO BEYOND EXPECTATIONS

When it comes to exceptional audio clarity, the quality of digital can't be denied. With the XiR™ M8600 Series mobiles, you get digital quality plus unique features to help your employees hear and speak clearly, wherever they work.

With Intelligent Audio, the radio volume automatically adjusts to compensate for background noise so workers don't have to adjust their radio volume to avoid missing a call in loud situations or disturbing others when they move into quiet places. Increased background noise suppression filters out unwanted external clamor – from road traffic to the roar of engines.

Bluetooth® audio, embedded right in the radio, provides voice communication with exceptional clarity – giving your people the freedom to move without wires. Also, IMPRES™ audio accessories enhance noise suppression and improve voice intelligibility for smarter audio than they've ever experienced before.

INDUSTRY-LEADING DATA

XiR™ M8600 Series radios feature integrated GPS that enables location tracking of mobile work teams and text messaging to enable communication when voice isn't feasible and the large, full-color display operates in day or night mode, for easy viewing of contact lists, text messages and work order tickets even in bright sunlight. These radios also feature integrated Bluetooth® enabling the radio to wirelessly interface with Bluetooth-enabled devices such as barcode scanners and magnetic card readers to facilitate the collection of critical information in the field.

MOTOTRBO's Application Developer program offers customized data applications that allow you to adapt your radios to your business challenges. With the industry's largest developer program, data applications answer your objectives—from work order ticket management to telephony integration, and more.

HIGH-POWERED PERFORMANCE

Because MOTOTRBO™ uses TDMA digital technology, you get integrated voice and data, twice the calling capacity and clearer voice communications. Also, the smart IMPRES™ technology in our high-powered accessories enables easier communications – everywhere your people travel.

RICH FUNCTIONALITY

XiR™ M8600 Series radios offer plenty of features your business seeks – including enhanced call signaling, basic and enhanced privacy-scrambling, option board expandability, the transmit interrupt suite to prioritize critical communication the moment you need it and compatibility with SCADA solutions for utility and public service monitoring and alarms. Programmable button features appear on the display for easy viewing and quick access. And when workers can't be distracted, customizable voice announcement provides audible confirmation of channel and zone changes as well as programmable button features, eliminating the need to view the display.

EXPANDED CAPACITY AND COVERAGE

Your work crews are on the go – picking up loads, dropping off cargo, repairing roads or restoring power after a storm. That's why you need the far-reaching performance of MOTOTRBO™.

IP Site Connect helps to dramatically improve customer service and productivity by using the Internet to extend coverage to create a wide area network, enhance single site coverage or link geographically dispersed locations. Capacity Plus single-site trunking expands capacity to over 1,000 users without adding new frequencies. Linked Capacity Plus multi-site digital trunking—enables you to accommodate the wide area communication your business requires. So whether you want expanded coverage at a single site or across multiple ones, MOTOTRBO™ can be scaled to your needs.

MIGRATE AT YOUR OWN PACE

Keeping operations running smoothly during a change in communication systems is vital to business. It's easy to migrate to digital with XiR™ M8600 Series radios because they 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, move to digital at your own pace.

DAY-IN, DAY-OUT DURABILITY

XiR™ M8600 Series mobile radios are backed by a two-year Standard Warranty and a 1-year warranty for accessories.



XiR™ M8668/ M8660/ M8628/ M8620 SPECIFICATIONS

GENERAL SPECIFICATIONS				
XiR™ M8660/ M8668			XiR™ M8620/ M8628	
	VHF	UHF Band 1	VHF	UHF Band 1
Channel Capacity	Up to 1,000		32	
Typical RF Output	Low Power	1-25 W	1-25 W	1-25 W
	High Power	25-45 W	25-40 W	25-40 W
Dimensions (H x W x L)	2.1 x 6.9 x 8.1 in (53.3 x 175.3 x 205.7 mm)		2.1 x 6.9 x 8.1 in (53.3 x 175.3 x 205.7 mm)	
Weight	3.9 lbs (1.8 kg)		3.9 lbs (1.8 kg)	
Current Drain	Standby	0.81 A max	0.81 A max	0.81 A max
	Rx @ Rated Audio	2 A max	2 A max	2 A max
	Transmit	1-25 W: 11.0 A max 25-45 W: 14.5 A max	1-25 W: 11.0 A max 25-40 W: 14.5 A max	1-25 W: 11.0 A max 25-45 W: 14.5 A max
FCC Description	1-25 W: ABZ99FT3086	1-25 W: ABZ99FT4087	1-25 W: ABZ99FT3086	1-25 W: ABZ99FT4087
	25-45 W: ABZ99FT3087	25-40 W: ABZ99FT4088	25-45 W: ABZ99FT3087	25-40 W: ABZ99FT4088
IC Description	1-25 W: 109AB-99FT3086	1-25 W: 109AB-99FT4087	1-25 W: 109AB-99FT3086	1-25 W: 109AB-99FT4087
	25-45 W: 109AB-99FT3087	25-40 W: 109AB-99FT4088	25-45 W: 109AB-99FT3087	25-40 W: 109AB-99FT4088

RECEIVER		
	VHF	UHF Band 1
Frequencies	136-174 MHz	403-470 MHz
Channel Spacing	12.5 kHz / 25 kHz	
Frequency Stability (-30°C, +60°C, +25°C Ref)	± 0.5 ppm	
Analog Sensitivity (12dB SINAD)	0.3uV 0.22uV (typical)	
Digital Sensitivity	5% BER : 0.3uV	
Intermodulation (TIA603D)	78 dB	75 dB
Adjacent Channel Selectivity (TIA603D)	50 dB @ 12.5 kHz 80 dB @ 25 kHz	50 dB @ 12.5 kHz 75 dB @ 25 kHz
Spurious Rejection (TIA603D)	80 dB	75 dB
Rated Audio	3 W (Internal) 7.5 W (External - 8 ohms) 13 W (External - 4 ohms)	
Audio Distortion @ Rated Audio	3% (typical)	
Hum and Noise	-40 dB @ 12.5 kHz/-45 dB @ 25 kHz	
Audio Response	TIA603D	
Conducted Spurious Emission (TIA603D)	-57dBm	

TRANSMITTER		
	VHF	UHF Band 1
Frequencies	136-174 MHz	403-470 MHz
Channel Spacing	12.5 kHz / 25 kHz	
Frequency Stability (-30°C, +60°C, +25°C Ref)	± 0.5 ppm	
Low Power Output	1-25 W	1-25 W
High Power Output	25-45 W	25-40 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	TIA603D	
Audio Distortion	3%	
FM Modulation	12.5 kHz: 11K0F3E / 25 kHz: 16K0F3E	
4FSK Digital Modulation	12.5 kHz Data: 7K60F1D & 7K60FXD	
	12.5 kHz Voice: 7K60F1E & 7K60FXE	
	Combination of 12.5 kHz Voice & Data: 7K60F1W	
Digital Vocoder Type	AMBE+2™	
Digital Protocol	ETSI TS 102 361-1, -2, -3	

PRODUCT SPEC SHEET

MOTOTRBO™ XiR™ M8600 SERIES MOBILE RADIOS

MILITARY STANDARDS

APPLICABLE MIL-STD	810C		810D		810E		810F		810G	
	METHOD	PROCEDURES	METHOD	PROCEDURES	METHOD	PROCEDURES	METHOD	PROCEDURES	METHOD	PROCEDURES
Low Pressure	500.1	I	500.2	II	500.3	II	500.4	II	500.5	II
High Temperature	501.1	I, II	501.2	I/A1, II/A1	501.3	I/A1, II/A1	501.4	I/Hot, II/Hot	501.5	I/A1, II
Low Temperature	502.1	I	502.2	I/C3, II/C1	502.3	I/C3, II/C1	502.4	I/C3, II/C1	502.5	I/C3, II
Temperature Shock	503.1	-	503.2	I/A1/C3	503.3	I/A1/C3	503.4	I	503.5	I/C
Solar Radiation	505.1	II	505.2	I	505.3	I	505.4	I	505.5	I/A1
Rain	506.1	I, II	506.2	I, II	506.3	I, II	506.4	I, III	506.5	I, III
Humidity	507.1	II	507.2	II	507.3	II	507.4	-	507.5	II - Aggravated
Salt fog	509.1	-	509.2	-	509.3	-	509.4	-	509.5	-
Dust	510.1	I	510.2	I	510.3	I	510.4	I	510.5	I
Vibration	514.2	VIII/F, Curve-W	514.3	I/10, II/3	514.4	I/10, II/3	514.5	I/24	514.6	I/24
Shock	516.2	I, II	516.3	I, IV	516.4	I, IV	516.5	I, IV	516.6	I, IV, V, VI

GPS

Accuracy specs are for long-term tracking (95th percentile values > 5 satellites visible at a nominal -130 dBm signal strength)

TTF (Time To First Fix) Cold Start	< 1 minute
TTF (Time To First Fix) Hot Start	< 10 seconds
Horizontal Accuracy	< 5 meters

ENVIRONMENTAL SPECIFICATIONS

Operating Temperature	-30° C / +60° C
Storage Temperature	-40° C / +85° C
Thermal Shock	Per MIL-STD
Humidity	Per MIL-STD
ESD	IEC 61000-4-2 Level 3
Dust and Water Intrusion	IP54, MIL-STD
Packaging test	MIL-STD 810C, D, E, F, and G

Specifications subject to change without notice. All specifications shown are typical.

Radio meets applicable regulatory requirements.

BLUETOOTH®

Version	Supports Bluetooth® 2.1 + EDR Specification
Profiles Supported	Bluetooth® Headset Profile (HSP), Serial Port Profile (SPP), Motorola fast push-to-talk.
Devices Supported	Radio supports 1 Bluetooth® audio accessory and 1 Bluetooth® data device simultaneously
Range	Class 2, 10 meters

For more information on how to strengthen your mobile voice, visit motorolasolutions.com/mototrbo

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MOTOTRBO
 DIGITAL
 REMASTERED.





IDEAL COMMUNICATION SOLUTION FOR YOUR BUSINESS

MOTOTRBO™

XiR R8200 REPEATER

Motorola is a company of firsts with a rich heritage of innovation. We continue to invent what's next – connecting people, delivering mobility and making technology personal. Versatile and powerful, MOTOTRBO combines the best in two-way radio functionality with digital technology, making it the ideal communication solution for your business. You get enhanced features, increased capacity, integrated data applications, exceptional voice quality and extended battery performance. This means more productive employees and lower operating costs for your business.

- Uses Time-Division Multiple-Access (TDMA) digital technology to provide **Twice The Calling Capacity** (as compared to analog or FDMA radios) for the price of one frequency license. A second call doesn't require a second repeater, saving you equipment costs.
- Provides **Easy Migration** from analog to digital with the ability to operate in both analog and digital modes and utilizing the **Dynamic Mixed Mode*** repeater functionality allows for automatic switching between analog and digital mode on the same repeater.
- The **IP Site Connect*** digital solution uses the Internet to extend coverage of your MOTOTRBO communication system to users anywhere in the world for dramatically improved customer service and increased productivity.
- **Capacity Plus*** is a scalable, singlesite digital trunking solution that can expand the capacity of your MOTOTRBO communication to over a thousand radio users without adding new frequencies.
- **Motorola's Application Developer Program** enables the development of customized data applications that adapt MOTOTRBO radios to meet the unique needs of your business.

MOTOTRBO™ REPEATER RADIO

GENERAL SPECIFICATIONS*

	XiR R8200		
	UHF		VHF
Channel Capacity	16		
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			
Standby	1.0A (100 VAC), 0.5A (240 VAC)		
Transmit	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 25-40 W : ABZ99FT4025	1-40W : ABZ99FT4027	1-25 W : ABZ99FT3026 25-45 W : ABZ99FT3025

Receiver			
	403-470 MHz	450-512 MHz	136-174 MHz
Frequencies			
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) 0.22 uV (typical)		
Digital Sensitivity	5% BER: 0.3 uV		
Intermodulation			
TIA603C	75 dB		
ETS	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			
	403-470 MHz	450-512 MHz	136-174 MHz
Frequencies			
Channel Spacing	12.5 kHz/ 25 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 / Radiated Emission	-36 dBm < 1 GHz -30 dBm > 1 GHz		
Adjacent Channel Power	-60 dB @ 12.5 kHz -70 dB @ 25 kHz		
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™		
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 300 086
EN 300 113

www.motorolasolutions.com

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AC3-02-007 Rev.6



SPECIFICATION SHEET

MOTOTRBO™

XiR M8260/M8268/M8220/M8228

MOBILE RADIOS



IDEAL COMMUNICATION SOLUTION FOR YOUR BUSINESS

MOTOTRBO™

XiR M8260/M8268/M8220/M8228 MOBILE RADIOS

Motorola is a company of firsts with a rich heritage of innovation. We continue to invent what's next – connecting people, delivering mobility and making technology personal. Versatile and powerful, MOTOTRBO combines the best in two-way radio functionality with digital technology, making it the ideal communication solution for your business. You get enhanced features, increased capacity, integrated data applications, exceptional voice quality and extended battery performance. This means more productive employees and lower operating costs for your business.

- **Integrates Voice and Data** into one device to increase your operational efficiency and support integrated applications including MOTOTRBO Text Messaging Services. Also features an integrated GPS module for use with third-party location tracking applications.
- Uses Time-Division Multiple-Access (TDMA) digital technology to provide **Twice The Calling Capacity** (as compared to analog or FDMA radios) for the price of one frequency license. A second call doesn't require a second repeater, saving you equipment costs.
- In digital mode, provides **Clearer Voice Communications** throughout the coverage area, as compared to analog radios, rejecting static and noise.
- Features the **Transmit Interrupt Suite*** – voice interrupt, remote voice dekey, emergency voice interrupt – to help prioritize critical communication exactly when needed.
- The **IP Site Connect*** digital solution uses the Internet to extend coverage of your MOTOTRBO communication system to users anywhere in the world for dramatically improved customer service and increased productivity.
- **Capacity Plus*** is a scalable, singlesite digital trunking solution that can expand the capacity of your MOTOTRBO communication to over a thousand radio users without adding new frequencies.
- **Motorola's Application Developer Program** enables the development of customized data applications that adapt MOTOTRBO radios to meet the unique needs of your business.

*Optional feature, please indicate it when placing the radio order.

MOTOTRBO™ MOBILE RADIO

GENERAL SPECIFICATIONS*

	XiR M8260 Display Non GPS Model XiR M8268 Display GPS Model			XiR M8220 Non-Display Non-GPS Model XiR M8228 Non-Display GPS Model		
	UHF		VHF	UHF		VHF
Channel Capacity	1000			32		
Frequencies	403-470 MHz	450-512 MHz	136-174 MHz	403-470 MHz	450-512 MHz	136-174 MHz
Dimension (HxWxT)	51 x 175 x 206 mm			51 x 175 x 206 mm		
Weight	1.8 kg (4.0 lbs)			1.8 kg (4.0 lbs)		
Current Drain (High Power)	0.81 A max			0.81 A max		
Standby	2 A max			2 A max		
Rx @ Rated Audio	14.5 A max			14.5 A max		
Tx @ Rated Audio	13.8 VDC			13.8 VDC		
Power Supply	1-25W : ABZ99FT4081 25-40W : ABZ99FT4080			1-25W : ABZ99FT408 25-40 W : ABZ99FT4080		1-25 W : ABZ99FT3083 5-45 W : ABZ99FT3082

Receiver								
	403-470 MHz		450-512 MHz	136-174 MHz	403-470 MHz		450-512 MHz	136-174 MHz
Frequencies	403-470 MHz		450-512 MHz	136-174 MHz	403-470 MHz		450-512 MHz	136-174 MHz
Channel Spacing	12.5 kHz/ 25 kHz		12.5 kHz/ 25 kHz			12.5 kHz/ 25 kHz		12.5 kHz/ 25 kHz
Frequency Stability (-30° C, +60° C, +25° C)	±/- 1.5 ppm (XiR M8260) ±/- 0.5 ppm (XiR M8268)		±/- 1.5 ppm (XiR M8220) ±/- 0.5 ppm (XiR M8228)			±/- 1.5 ppm (XiR M8220) ±/- 0.5 ppm (XiR M8228)		±/- 1.5 ppm (XiR M8220) ±/- 0.5 ppm (XiR M8228)
Analog Sensitivity	0.3 uV (12 dB SINAD) 0.4 uV (20 dB SINAD)		0.3 uV (12 dB SINAD) 0.4 uV (20 dB SINAD)			0.3 uV (12 dB SINAD) 0.4 uV (20 dB SINAD)		0.3 uV (12 dB SINAD) 0.4 uV (20 dB SINAD)
Digital Sensitivity	0.22 uV (typical)		0.22 uV (typical)			0.22 uV (typical)		0.22 uV (typical)
Intermodulation	5% BER: 0.3 uV		5% BER: 0.3 uV			5% BER: 0.3 uV		5% BER: 0.3 uV
TIA603C	75 dB		78 dB			75 dB		78 dB
ETS	60 dB		60 dB			60 dB		60 dB
Adjacent Channel Selectivity (TIA603, ETS)	60 dB @ 12.5 kHz 70 dB @ 25 kHz		60 dB @ 12.5 kHz 70 dB @ 25 kHz			60 dB @ 12.5 kHz 70 dB @ 25 kHz		60 dB @ 12.5 kHz 70 dB @ 25 kHz
Spurious Rejection	75 dB		80 dB			75 dB		80 dB
TIA603C	70 dB		70 dB			70 dB		70 dB
ETS	70 dB		70 dB			70 dB		70 dB
Rated Audio	3 W (Internal) 7.5 W (External - 8 ohms) 13 W (External - 4 ohms)		3 W (Internal) 7.5 W (External - 8 ohms) 13 W (External - 4 ohms)			3 W (Internal) 7.5 W (External - 8 ohms) 13 W (External - 4 ohms)		3 W (Internal) 7.5 W (External - 8 ohms) 13 W (External - 4 ohms)
Audio Distortion @ Rated Audio	3% (typical)		3% (typical)			3% (typical)		3% (typical)
Hum and Noise	-40 dB @ 12.5 kHz -45 dB @ 25 kHz		-40 dB @ 12.5 kHz -45 dB @ 25 kHz			-40 dB @ 12.5 kHz -45 dB @ 25 kHz		-40 dB @ 12.5 kHz -45 dB @ 25 kHz
Audio Response	+1, -3 dB		+1, -3 dB			+1, -3 dB		+1, -3 dB
Conducted Spurious Emission	-57 dBm		-57 dBm			-57 dBm		-57 dBm

Transmitter								
	403-470 MHz		450-512 MHz	136-174 MHz	403-470 MHz		450-512 MHz	136-174 MHz
Frequencies	403-470 MHz		450-512 MHz	136-174 MHz	403-470 MHz		450-512 MHz	136-174 MHz
Power Output	1-25 W 25-40 W		1-40 W	1-25 W 25-45 W	1-25 W 25-40 W		1-40 W	1-25 W 25-45 W
Channel Spacing	12.5 kHz/ 25 kHz		12.5 kHz/ 25 kHz			12.5 kHz/ 25 kHz		12.5 kHz/ 25 kHz
Frequency Stability (-30° C, +60° C, +25° C)	±/- 1.5 ppm (XiR M8260) ±/- 0.5 ppm (XiR M8268)		±/- 1.5 ppm (XiR M8220) ±/- 0.5 ppm (XiR M8228)			±/- 1.5 ppm (XiR M8220) ±/- 0.5 ppm (XiR M8228)		±/- 1.5 ppm (XiR M8220) ±/- 0.5 ppm (XiR M8228)
Modulation Limiting	±/- 2.5 kHz @ 12.5 kHz ±/- 5.0 kHz @ 25 kHz		±/- 2.5 kHz @ 12.5 kHz ±/- 5.0 kHz @ 25 kHz			±/- 2.5 kHz @ 12.5 kHz ±/- 5.0 kHz @ 25 kHz		±/- 2.5 kHz @ 12.5 kHz ±/- 5.0 kHz @ 25 kHz
FM Hum and Noise	-40 dB @ 12.5 kHz -45 dB @ 25 kHz		-40 dB @ 12.5 kHz -45 dB @ 25 kHz			-40 dB @ 12.5 kHz -45 dB @ 25 kHz		-40 dB @ 12.5 kHz -45 dB @ 25 kHz
Conducted / Radiated Emission	-36 dBm < 1 GHz -30 dBm > 1 GHz		-36 dBm < 1 GHz -30 dBm > 1 GHz			-36 dBm < 1 GHz -30 dBm > 1 GHz		-36 dBm < 1 GHz -30 dBm > 1 GHz
Adjacent Channel Power	-60 dB @ 12.5 kHz -70 dB @ 25 kHz		-60 dB @ 12.5 kHz -70 dB @ 25 kHz			-60 dB @ 12.5 kHz -70 dB @ 25 kHz		-60 dB @ 12.5 kHz -70 dB @ 25 kHz
Audio Response	+1, -3 dB		+1, -3 dB			+1, -3 dB		+1, -3 dB
Audio Distortion	3%		3%			3%		3%
FM Modulation	12.5 kHz : 11K0F3E 25 kHz : 16K0F3E		12.5 kHz : 11K0F3E 25 kHz : 16K0F3E			12.5 kHz : 11K0F3E 25 kHz : 16K0F3E		12.5 kHz : 11K0F3E 25 kHz : 16K0F3E
4FSK Digital Modulation	12.5 kHz Data Only: 7K60FXD 12.5 kHz Data & Voice: 7K60FXE		12.5 kHz Data Only: 7K60FXD 12.5 kHz Data & Voice: 7K60FXE			12.5 kHz Data Only: 7K60FXD 12.5 kHz Data & Voice: 7K60FXE		12.5 kHz Data Only: 7K60FXD 12.5 kHz Data & Voice: 7K60FXE
Digital Vocoder Type	AMBE+2™		AMBE+2™			AMBE+2™		AMBE+2™
Digital Protocol	ETSI-TS102 361-1		ETSI-TS102 361-1			ETSI-TS102 361-1		ETSI-TS102 361-1

GPS		Environmental Specifications	
Accuracy specs are for long-term tracking (95th percentile values > 5 satellites visible at a nominal -130 dBm signal strength)			
TTF (Time To First Fix) Cold Start	< 2 minutes	Operating Temperature	-30° C / +60° C
TTF (Time To First Fix) Hot Start	< 10 seconds	Storage Temperature	-40° C / +85° C
Horizontal Accuracy	< 10 meters	Thermal Shock	Per MIL-STD
*Specifications subject to change without notice. All specifications shown are typical. Radio meets applicable regulatory requirements.		Humidity	Per MIL-STD
Conforms to EC 1999/5/EC (R&TTE - Radio and Telecommunications Terminal Equipment) EN 300 086 EN 300 113		ESD	IEC-801-2KV
		Packaging Test	MIL-STD 810D and E

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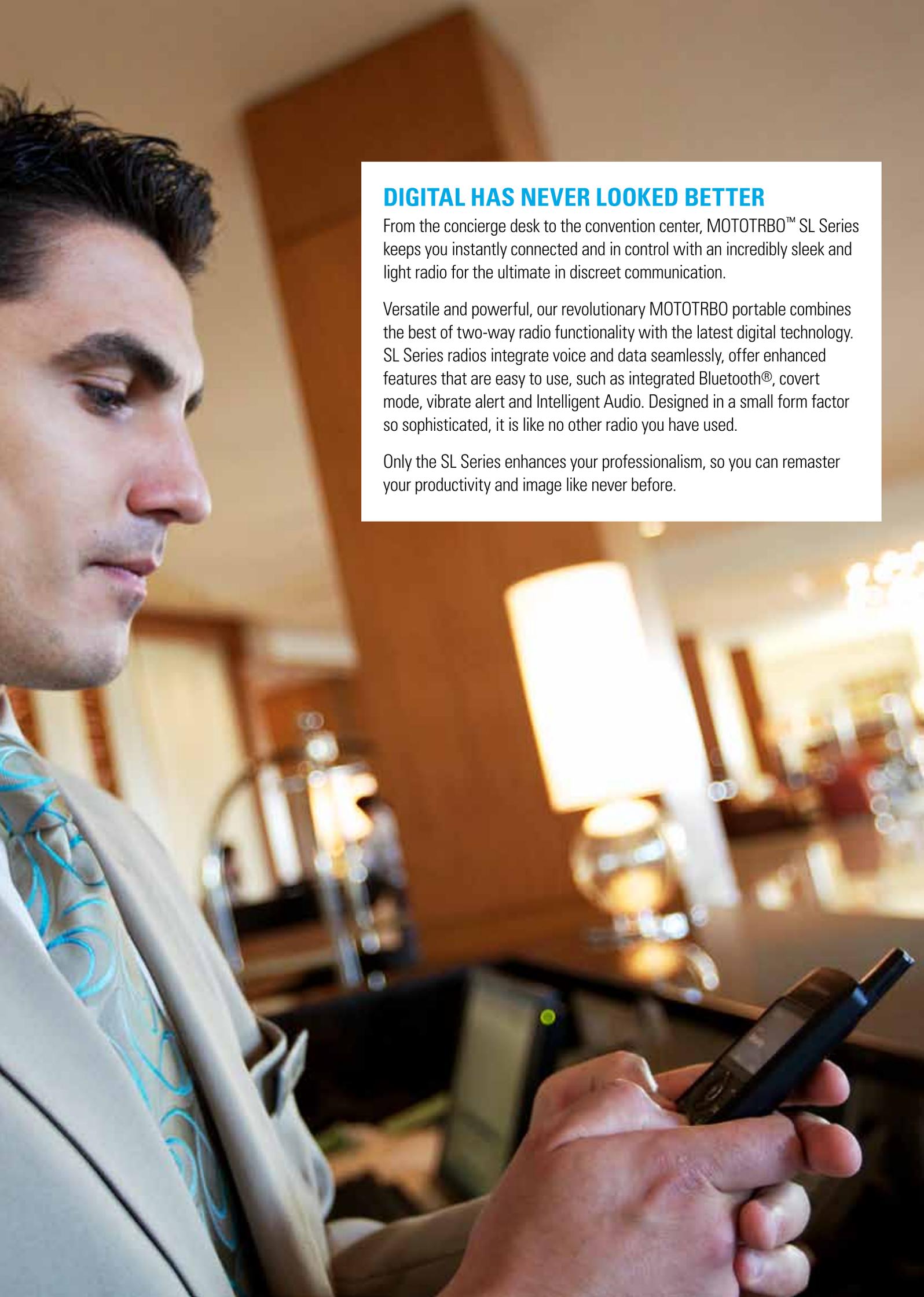
MOTOTRBO™ SL SERIES



DIGITAL TWO-WAY PORTABLE RADIO

WHERE FUNCTION MEETS STYLE





DIGITAL HAS NEVER LOOKED BETTER

From the concierge desk to the convention center, MOTOTRBO™ SL Series keeps you instantly connected and in control with an incredibly sleek and light radio for the ultimate in discreet communication.

Versatile and powerful, our revolutionary MOTOTRBO portable combines the best of two-way radio functionality with the latest digital technology. SL Series radios integrate voice and data seamlessly, offer enhanced features that are easy to use, such as integrated Bluetooth®, covert mode, vibrate alert and Intelligent Audio. Designed in a small form factor so sophisticated, it is like no other radio you have used.

Only the SL Series enhances your professionalism, so you can remaster your productivity and image like never before.

DISCREET WAS NEVER SO SLEEK

Everything about the SL Series portable is designed for discretion and professionalism. From its incredibly sleek shape –so your staff will always look professional –to its exceptionally slim size. Hold it in your hand and feel how light it is –less than half the weight of a standard radio. It's so effortless to carry, comfortable to wear and elegant in styling, it complements the most upscale attire.

The accessories are also designed to complement the sleek, compact design of the SL Series portables. Bluetooth® wireless and compact single-wire earpieces enhance discreet communication and increase guest satisfaction.

AUDIO BEYOND EXPECTATIONS

When it comes to exceptional audio clarity, the quality of digital can't be surpassed. With the SL Series portables, you get digital quality plus unique features to help your employees hear and speak clearly, wherever they work.

With the Intelligent Audio feature, the radio volume automatically adjusts to compensate for background noise so managers won't miss a call on the manufacturing floor or disturb others when they return to the main office. The radio's background noise suppression filters out external clamor – from crowded conventions to bustling airport gates. And Bluetooth® audio, embedded right in the radio, provides wireless voice communication with outstanding clarity and discretion.

INDUSTRY-LEADING DATA

Whether the front desk is assisting a guest or the event planner is preparing for a special event, sharing information instantly is paramount. The SL Series features text messaging and embedded Bluetooth® data right in the radio so work teams can share real time

information, saving valuable hours and enabling better decision making. Plus your staff can read work order tickets and text messages quickly and clearly on the large, high resolution, full-color screen.

Take a look at the enhanced work order ticket management in the SL Series and see what true efficiency can be. We've eliminated a number of steps to read work order tickets and the five line display presents data at a glance—saving time and eliminating scrolling through screens.

And Motorola's Application Developer Program offers customized data applications tailored to your operations. With the largest developer program in the industry, data applications answer your objectives – from email gateways to telephony integration, and more.

COVERT WHEN IT COUNTS

Put the SL Series radio in covert mode and it goes dark – shielding the display, LED lights and audible tones –for the ultimate in discretion. Your security personnel can hear clearly using our discreet audio accessories, but no one else can. These accessories – a swivel earpiece or surveillance earpiece with a translucent tube – are so small, sleek and powerful, your staff can converse privately and conveniently wherever they work.

EXCEPTIONALLY INTUITIVE

The high resolution, full color screen on the SL Series portable automatically senses ambient light and adjusts backlighting for optimal viewing in all kinds of conditions. It also features a full keypad and an enhanced programmable button that manages up to nine frequently used features. Press a button and access all of your contacts or check the status of a work ticket with just a touch.

MOTOROLA'S APPLICATION DEVELOPER PROGRAM: BUILT FOR YOUR BUSINESS

Powerful and flexible, MOTOTRBO is a business critical communication tool that adapts to your workforce, your customers and your operations.

With the industry's largest Application Developer Program, MOTOTRBO offers a wide array of data applications to expand communication beyond voice. What's more, you can work directly with third-party developers or your own IT staff to create customized applications designed for your unique needs.



PROFESSIONAL RADIO



MAKING SOLUTIONS WORK FOR YOU

KEEP BUSINESS RUNNING SMOOTHLY WITH BUSINESS APPLICATIONS:



Work order tickets for faster customer response



Integrated Bluetooth® for sharing data wirelessly and instantly between devices



Dispatch consoles for centralized communication



Email gateways to connect to email from your radio



Network monitoring to maximize system utilization



Man-down applications so radios call for help when workers can't



Telephony for communication between radios and landline or mobile phones



Text messaging for quick and discreet communication

**MOTOTRBO™ SL SERIES
DIGITAL TWO-WAY PORTABLE RADIO**

Customizable voice announcement provides audible confirmation so a user can be notified of channel and zone changes or programmable button statuses without having to view the radio display. And for discretion, they can use the vibrate alert feature to switch the radio to vibrate mode and never disturb or interrupt guests again.

EXPANDED CAPACITY AND COVERAGE

Your personnel are on the move –throughout your buildings and across your properties. That’s why you need the far-reaching performance of MOTOTRBO. The IP Site Connect solution dramatically improves customer service and productivity by using the Internet to extend coverage to create a wide area network, enhance single site coverage or link geographically dispersed locations. Capacity Plus provides single-site trunking and expands capacity to over 1,000 users without adding new frequencies. And combining the benefits of both solutions, Linked Capacity Plus is an entry-level, multi-site trunking solution that expands capacity and extends coverage so large work teams can stay connected across a wide area. Additional multi-site digital trunking solutions, such as Connect Plus, may also be supported in a future release. So whether you want expanded coverage at a single site or across multiple ones, MOTOTRBO can be scaled to meet your voice and data communication needs.

REMARKABLY RELIABLE

MOTOTRBO meets the most demanding specs, including IP54 for dust and water protection and U.S. Military 810 C, D, E and G. And it’s backed by a two-year Standard Warranty and at least a 1-year warranty for batteries accessories.

IN TOP CONDITION

Managing in-house repairs and maintenance of your radios takes a dedicated staff of technicians and an ongoing investment in diagnostic equipment, repair tools and technical training to keep up to speed on the latest technology.

We’ve made that investment for you so you can easily and cost-effectively keep radios in top operating condition. Subscriber repair services help you budget for repairs and prevent unexpected costs.

**BE READY FOR
THE FUTURE WITH THE
RIGHT STANDARD**

MOTOTRBO complies with the globally-recognized European Telecommunications Standard Institute (ETSI) Digital Mobile Radio (DMR) Tier 2 standard for professional two-way radio users.

DMR is widely supported by the leading two-way manufacturers in the industry and the most widely deployed digital mobile radio technology worldwide. This open standard assures long-term sustainability and creates a community of manufacturers who build interchangeable equipment that can compete on features, benefits and price.



“It means a lot that we have a radio that can provide that service because at the end of the day, I want to be satisfied with feeling that I’ve just given our guests and residents a five star, Five Diamond service.”

- Max Jenue-Gens
Security Officer, Acqualina Resort and Spa on the Beach, Miami

FEATURES AT-A-GLANCE

1. Dual internal speakers deliver loud, clear audio quality
2. Tri-color LED indicator for clear, visible feedback of calling, scanning, roaming and monitoring features.
3. Contoured push-to-talk button provides comfort and is easy to access
4. 4-way navigation disc for easy scrolling through menus and channels (supports up to 1,000 channels)
5. 3 programmable option buttons for quick access to frequently used features; ability to program up to 9 of your favorite features into a single programmable button, also supports emergency call
6. Audio connector port supports discreet wired audio accessories (wireless Bluetooth® audio also available)
7. Built-in photosensor intuitively adjusts backlighting on the screen to optimize viewing in all types of conditions, special “day/night mode” changes screen and illuminates icons to make them clear and readable in varying light conditions
8. Large, high-definition, 5 line, color display offers high clarity and resolution
9. Intelligent Audio feature automatically adjusts the radio volume according to the environment’s noise level
10. Innovative antenna design optimizes range performance

ADDITIONAL FEATURES

- 2W DMR digital radio
- Weighs less than one-half of a standard two-way radio
- Operates in UHF 403-470 MHz frequency band
- Discreet communications; covert mode setting and vibrate alert feature for increased security and privacy, eliminates guest disturbances
- Customizable voice announcement provides audible confirmation of channel or zone changes or programmable button statuses, without having to view the radio display
- Send quick text messages including customizable and pre-programmed messages
- Enhanced work order ticket management feature simplifies use and improves work order ticket response time



STANDARD PACKAGE

- 5 line color display portable radio
- Carry holder
- Compact Li-Ion battery
- Battery cover
- 2 year standard warranty

“The Motorola SL Series is fantastic. It’s really lightweight. It’s very easy to use.”

- Ruby Mountain
 Reception, Claridge’s Hotel, London

Success in your business relies on the fundamentals—attention to detail, exceptional customer service and rapid response to your customers’ needs. SL1K accessories enhance your ability to serve your customers effectively – with forward-thinking features like integrated Bluetooth® and Intelligent Audio – so you can remaster your productivity and image. That’s why it’s critical to choose the only accessories certified to perform best with MOTOTRBO radios.

ENHANCE MOBILITY WITH INTEGRATED BLUETOOTH

Whether hotel staff is responding to guest requests or a security team is covering a special event, sharing information instantly, easily and seamlessly is critical to your business. So we embedded Bluetooth® audio right in our MOTOTRBO radios to make communications even more convenient. Our exclusive Operations Critical Wireless earpiece handles loud environments while an optional wireless push-to-talk (PTT) links to any earpiece to enable more covert communications. Just put the PTT in a pocket or on a lapel and connect instantly.

MOVE FROM HECTIC TO HUSHED

Our SL1K radio offers a smart feature—Intelligent Audio—that adjusts radio volume to fit the environment’s noise level. Intelligent Audio also works with select audio accessories, giving your workforce even more communication flexibility.

Connect an SL1K accessory and the Intelligent Audio feature automatically adjusts radio volume and filters out background noise, drastically improving audio clarity. Now your employees won’t miss a call at a bustling banquet or disturb others when they move into a quiet hallway.

TALK COMFORTABLY AND COVERTLY

Our single-wire swivel earpiece and surveillance earpiece are small, sleek and powerful, so your employees can communicate easily wherever they walk and talk.

The transparent coiled cord and rubber earbud on the surveillance earpiece offers greater discreetness for security personnel. The flexible-fitting swivel earpiece is comfortable, even for extended shifts. Both earpieces have an inline microphone and push-to-talk, making communication easier and unobtrusive.

Add compact carrying accessories – like a swivel carry holder or a lightweight wrist strap – and you’ve got flexibility and comfort that meets the needs of the busiest people on your team.

THIN IS IN - FROM BATTERIES TO CHARGERS

From the standard cell phone-sized batteries to the micro-USB charger that plugs directly in the wall, we designed our SL Series accessories with portability, professionalism and convenience as our top priorities. Both the standard and high-capacity batteries are so slim and lightweight that it’s easy to carry spares.

Our unique multi-unit charger merges high power with high image, too. You can charge six radios simultaneously and recharge a battery in the top slot whenever a radio is removed. This charger is both functional and sleek in design.



Carry Holder



Multi-Unit Charger



Swivel Earpiece



Wrist Strap



Operations Critical Wireless Earpiece

“When I first saw the MOTOTRBO SL Series I thought that it was a cell phone, not an actual two-way radio. It has all the capabilities of a two-way radio but with a professional, discreet look that fits absolutely well with all our uniforms.”

- Juan Velez
Director of IT, Acqualina Resort and Spa on the Beach, Miami

SL1K SPECIFICATIONS

GENERAL SPECIFICATIONS

FULL DISPLAY SL1K		
Channel Capacity	1000	
Frequency	403 - 470 MHz	
BT70 Li-ion (1400mAh) Battery	Height (H) x Width (W) x Thickness (T)	4.76 x 2.17 x .68 inches (121 x 55 x 17.4 mm)
	Weight	5.39 oz / 153 g
BT90 Li-ion (1800mAh) Battery	Height (H) x Width (W) x Thickness (T)	4.76 x 2.17 x .78 inches (121 x 55 x 19.8 mm)
	Weight	5.82 oz / 165 g
Power Supply	3.7 V (Nominal)	
Operating Temperature	-20 ~ +60 °C ¹	
FCC Description	ABZ99FT4090	
IC Description	109AB-99FT4090	

Average battery life at 5/5/90 duty cycle with battery saver enabled²

BT70 Li-ion (1400mAh) Battery	8.5 hrs
BT90 Li-ion (1800mAh) Battery	11.5 hrs

RECEIVER

Frequencies	403 - 470 MHz
Channel Spacing	12.5 kHz
Frequency Stability	±1.5ppm
Digital Sensitivity	5% BER : 0.3uV
Rated Audio	0.5W
Conducted Spurious Emission (TIA603D)	-57dBm

TRANSMITTER

Frequencies	403 - 470 MHz
Channel Spacing	12.5 kHz
Frequency Stability	±1.5ppm
Low Power Output	2W
4FSK Digital Modulation	12.5kHz Data: 7K60F1D & 7K60FXD
	12.5kHz Voice: 7K60F1E & 7K60FXE
	Combination of 12.5kHz Voice and Data: 7K60F1W
Conducted/Radiated Emission (TIA603D)	-36 dBm < 1GHz / -30 dBm > 1GHz
Digital Vocoder Type	AMBE+2™
Digital Protocol	ETSI TS 102 361 -1,-2,-3

ENVIRONMENTAL SPECIFICATIONS

Operating Temperature	-20° C to +60° C
Storage Temperature	-30° C to +70° C
Thermal Shock	Per MIL-STD
Humidity	8 hr soak @ +50° C and 95% RH
ESD	IEC 61000-4-2
Dust and Water Intrusion	IP54
Salt Fog	8 hrs exposure to 5% saline solution (sodium chloride) at 35° C, 16 hours standing period
Packaging Test	MIL-STD 810D and E

BLUETOOTH®

Version	Supports Bluetooth® 2.1 + EDR Specification
Range	Class 1, 10 meters

MILITARY STANDARDS

APPLICABLE MIL-STD	MIL-STD- 810C		MIL-STD- 810D		MIL-STD- 810E		MIL-STD- 810F		MIL-STD- 810G	
	METHOD	PROCEDURES	METHOD	PROCEDURES	METHOD	PROCEDURES	METHOD	PROCEDURES	METHOD	PROCEDURES
Low Pressure	500.1	I	500.2	II	500.3	II	500.4	II	500.5	II
High Temperature	501.1	I	501.2	I/A1,II/A1	501.3	I/A1, II/A1	501.4	I/Hot, II/Hot	501.5	I/A1, II/A1
Low Temperature	-	-	502.2	I/C1, II/C1	502.3	I/C1, II/C1	502.4	I/C1, II/C1	502.5	I/C1, II/C1
Temperature Shock	-	-	503.2	I/A1/C1	503.3	I/A1/C1	503.4	I	503.5	I/C
Solar Radiation	505.1	II	505.2	I	505.3	I	505.4	I	505.5	I/A1
Rain	506.1	I	506.2	I	506.3	I	506.4	I	506.5	I
Dust	510.1	I	510.2	I	510.3	I	510.4	I	510.5	I
Vibration	514.2	VIII/F, Curve-W	514.3	I/10, II/3	514.4	I/10, III/3	514.5	I/24	514.6	I/24
Shock	516.2	II	516.3	IV	516.4	IV	516.5	IV	516.6	IV, VI

¹ Radio only - Li-ion battery -10C

² Actual battery runtime observed may vary based on the use of certain features such as Bluetooth® and Option Board based applications.

Please contact your Motorola sales representative for battery runtime expectations based on your specific radio configuration.

Specifications subject to change without notice. All specifications shown are typical.

Radio meets applicable regulatory requirements.

For more information on how to make sleek and stylish work for you,
visit motorolasolutions.com/ap/SL1K

motorolasolutions.com

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SL1K Series product spec sheet

MOTOTRBO
DIGITAL
REMASTERED.

