



PRODUCT DATA SHEET
MOTOTRBO™ SL7000e SERIES
DIGITAL TWO-WAY RADIOS

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YOU'RE SMARTER, CONNECTED

With this dynamic evolution of MOTOTRBO digital two-way radios, you're smarter, better connected and more productive. The SL 7000e Series is designed for the manager who needs complete control. With a slim and light form factor incorporating high performance integrated voice and data, these next-generation radios deliver smart connectivity to your organization.

SMART

The MOTOTRBO SL 7000e Series is a family of DMR-standard slim and light portable radios that connects you with sophistication. Pocket-sized and with a smooth outline, the radios feature a full keypad and 5-line color screen with customizable display schemes. A built-in vibrate function alerts you quietly when you need to be discreet, and a comprehensive range of audio accessories allows you to stay connected without disturbing your customers.

CONNECTED

With integrated voice and data, the SL 7000e Series delivers operations-critical communications. Bluetooth® lets you talk without wires, while also enabling precise indoor location-tracking. Powerful audio and advanced noise cancellation ensure your call is heard, even in noisy environments, and 280-character text messaging simplifies complex communications. Integrated Wi-Fi® enables remote software updates.

PRODUCTIVE

With a clear user interface designed to support productivity applications such as Work Order Ticketing, the SL 7000e Series helps your staff make the most of their work day. Voice Announcement and Text-to-Speech features allow you to monitor radio settings and text communications hands-free, and sophisticated scan functions keep you in touch with many teams at once.



WHAT'S NEW IN THESE NEXT GENERATION RADIOS

- Integrated accelerometer for optional Man Down
- Bluetooth® 4.0
- Indoor location tracking
- Integrated Wi-Fi®
- Over-the-air software updates
- Upgraded audio for greater clarity at high volume
- Improved expandability
- Increased UHF transmitter power, for greater range

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Model Number	SL 7550e		SL 7580e	SL 7590e
Band	UHF Band 1	UHF Band 2	800	900
GENERAL SPECIFICATIONS				
Frequency	403-470 MHz	450-512 MHz	806-825 MHz, 851-870 MHz	896-902 MHz, 935-941 MHz
High Power Output	3 W	3 W	2 W	
Low Power Output	1 W	1 W	1 W	
Channel Spacing	12.5 kHz			
Channel Capacity	1000			
Dimensions (H x W x D), Radio + Standard Battery	4.8 x 2.2 x 0.9 in (121 x 55 x 23 mm)			
Weight, Radio + Standard Battery	6 oz (174 g)			
FCC Description	AZ489FT7072	AZ489FT7073	AZ489FT7074	AZ489FT7075
IC Description	109U-89FT7072	109U-89FT7073	109U-89FT7074	109U-89FT7075
Battery Life, Standard 2200 mAh Battery ¹	14.3 hrs		13.5 hrs	
Power Supply (Nominal)	3.7 V			



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ALL MODELS

TRANSMITTER SPECIFICATIONS

4FSK Digital Modulation	12.5 kHz Data: 7K60F1D and 7K60FXD 12.5 kHz Voice: 7K60F1E and 7K60FXE Combination of 12.5 kHz Voice and Data: 7K60F1W
Digital Protocol	ETSI TS 102 361-1, -2, -3
Conducted/Radiated Emissions (TIA603D)	-36 dBm < 1GHz, -30 dBm > 1GHz
Frequency Stability	± 1.5 ppm

RECEIVER SPECIFICATIONS

Digital Sensitivity (5% BER)	0.15 uV
Conducted Spurious Emissions (TIA603D)	-57 dBm

AUDIO SPECIFICATIONS

Digital Vocoder Type	AMBE+2™
Audio Response	TIA603D
Rated Audio	0.5 W
Audio Distortion at Rated Audio	3%

BLUETOOTH SPECIFICATIONS

Version	4.0
Range	Class 2, 33 ft (10 m)
Supported Profiles	Bluetooth Headset Profile (HSP), Serial Port Profile (SPP), Motorola fast push-to-talk.
Simultaneous Connections	1 x audio accessory and 1 x data device
Permanent Discoverable Mode	Optional

Wi-Fi SPECIFICATIONS

Standards Supported	IEEE 802.11b, 802.11g, 802.11n
Security Protocol Supported	WPA, WPA-2, WEP
Maximum Number of SSIDs	128

ENVIRONMENTAL SPECIFICATIONS

Operating Temperature ²	-4 °F to +140 °F (-20 °C to +60 °C)
Storage Temperature	-22 °F to +158 °F (-30 °C to +70 °C)
Electrostatic Discharge	IEC 61000-4-2 Level 3
Dust and Water Intrusion	IEC 60529 - IP54
Salt Fog	5% NaCl for 8 hrs at 35 C, 16 hrs standing
Packaging Test	MIL-STD 810D and E

CONNECTION

- UHF Band, 3 W
- 800/900 Band, 2 W
- Color Screen
- Full Keypad
- 1000 Channels
- Digital Only
- Voice and Data
 - Integrated Wi-Fi
- Canned Text Messaging
- Freeform Text Messaging
 - Work Order Ticketing
- Bluetooth Audio and Data
 - Indoor Location Tracking
- Voice Announcement
 - Text to Speech
- Option Board
- Home Channel Reminder
- Vibrate Alert
- Ambient Light Sensor

AUDIO

- Intelligent Audio
- SINC+ Noise Cancellation
- Acoustic Feedback Suppressor
- Microphone Distortion Control
- User-Selectable Audio Profiles
- Switch Speaker
- Trill Enhancement

CUSTOMIZATION

- Wide Range of Accessories
- Prong Accessory Connector
- 2 Programmable Buttons
- Emergency Button

MANAGEMENT

- Radio Management
- Over-the-Air Programming
- Over-the-Air Software Update

SAFETY

- Man Down
- Lone Worker
- Basic Privacy
- Enhanced Privacy
- Transmit Interrupt
- Digital Emergency
- Emergency Search Tone
- Remote Monitor
- Radio Disable / Enable
- Waterproof to IP54
- Rugged to MIL-STD

SYSTEMS

- Dual Capacity Direct Mode
- Conventional
- [IP Site Connect](#)
- [Capacity Plus \(Single and Multi-Site\)](#)
- [Capacity Max](#)
- [Connect Plus](#)

◦ Optional

NOTES

- 1: Typical battery life, 5/5/90 profile at maximum transmitter power with Bluetooth, Wi-Fi and Option Board applications disabled. Actual observed runtimes may vary.
 2: Radio only. Battery operation down to 14 °F (-10 °C) only.
 Specifications subject to change without notice. All specifications shown are typical values.

MILITARY STANDARDS

	MIL-STD 810C		MIL-STD 810D		MIL-STD 810E		MIL-STD 810F		MIL-STD 810G	
	METHOD	PROCEDURE	METHOD	PROCEDURE	METHOD	PROCEDURE	METHOD	PROCEDURE	METHOD	PROCEDURE
Low Pressure	500.1	I	500.2	II	500.3	II	500.4	II	500.5	II
High Temp	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/A1
Low Temp	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/C1
Temp Shock	503.1	I	503.2	A1/C3	503.3	A1/C3	503.4	I	503.5	I-C
Solar Radiation	505.1	II	505.2	I/Hot-Dry	505.3	I/Hot-Dry	505.4	I/Hot-Dry	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
Dust	510.1	I, II	510.2	I, II	510.3	I, II	510.4	I, II	510.5	I, II
Vibration	514.2	VIII/F, W, XI	514.3	I/10, II/3	514.4	I/24, II/5	514.5	I/24, II/5	514.6	I/24, II/5
Shock	516.2	I, II	516.3	I, IV	516.4	I, IV	516.5	I, IV	516.6	I, IV

BLUETOOTH

Connect to your radio without wires, for extra comfort and safety. A full portfolio of Bluetooth headsets and earpieces is available.



COVERT ACCESSORIES

When you need to stay in touch discreetly, choose from our range of covert audio accessories. From clear tube earpieces to virtually invisible wireless in-ear units.



ENERGY SOLUTIONS

Make sure your radio is powered and charged properly, with our range of energy solutions. Choose from single and multi-unit chargers, and slim and high capacity batteries.



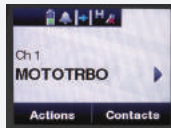
EARPIECES

For all-day comfort, choose from our range of earpieces. Lightweight or heavy duty, discreet or rugged, with or without built-in hearing protection.



SCREEN PROTECTORS

In ultra-harsh environments, your radio's screen can get scratched and abraded. Keep it clear and readable with these durable pre-cut screen protectors.



CARRY SOLUTIONS

However you choose to carry your SL 7000e Series, we have a solution available. For example, the secure plastic holster protects the radio while keeping it easily to hand.



For details on SL 7000 Series accessories, please download the [MOTOTRBO Professional Accessories Catalog](#).

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