



MOTOTRBO™ SL 7000e SERIES

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

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



| | | | | |
|--|---------------------------------------|---------------|--------------------------|--------------------------|
| 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 | | | |



PRODUCT DATA SHEET
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DIGITAL TWO-WAY RADIOS

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 µV |
| 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.



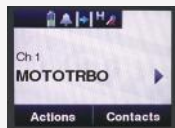
EARPIECES

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](#).

To get connected with MOTOTRBO, please contact your local Motorola representative or visit motorolasolutions.com/MOTOTRBO

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