

# MOTOTRBO™ SL3500e

INSTANT COMMUNICATION,  
PROFESSIONAL STYLE



## GENERAL SPECIFICATIONS

|   |                        |               |
|---|------------------------|---------------|
| Model Number  | SL3500e                |               |
| Band  | VHF                    | UHF           |
| Frequency   | 136-174 MHz            | 403-470 MHz   |
| High Power Output <sup>1</sup> (Digital)                              | 3 W                    |               |
| High Power Output (Analog)  | 2 W                    |               |
| Low Power Output  | 0.5, 1W                |               |
| Channel Spacing   | 12.5, 25* kHz          |               |
| Channel Capacity  | 128                    |               |
| Dimensions (H x W x D), Radio + Standard Battery                      | 125.7 x 55.0 x 22.7 mm |               |
| Weight, Radio + Standard Battery                                      | 190g                   |               |
| FCC Description   | AZ489FT7107            | AZ489FT7106   |
| IC Description  | 109U-89FT7107          | 109U-89FT7106 |
| Digital / Analog Battery Life <sup>2</sup> (Li-Ion (2300mAh) Battery) | 13.5 / 11 hrs          |               |
| Power Supply (Nominal)  | 3.7 V                  |               |

\* 25kHz not available in U.S.A

## 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                  |
| Adjacent Channel Power                 | 60dB (12.5 kHz channel), 70dB (25 kHz channel)  |
| Frequency Stability                    | ± 1.5 ppm                                       |

## ADDITIONAL FEATURES

- Transmit Interrupt
- Unified Call List
- Enhanced Privacy
- Fixed Privacy Key Decryption
- Ignore Clear Signal
- Bluetooth Audio
- Emergency Search Tone
- Covert Mode
- Intelligent Audio
- Mute Mode
- Noise Suppressor
- Notification List
- Radio Service Menu
- Quick Text Messaging
- User-Selectable Audio Profiles

## RECEIVER SPECIFICATIONS

|  |  |
|--|--|
| Analog Sensitivity (12dB SINAD)                | 0.3 uV, 0.22uV (typical)                         |
| Digital Sensitivity (5% BER)                   | 0.25 uV, 0.19uV (typical)                        |
| Intermodulation (TIA603D)                      | 70 dB  |
| Adjacent Channel Selectivity, (TIA603A)-1-tone | 60 dB (12.5 kHz channel), 70 dB (25 kHz channel) |
| Adjacent Channel Selectivity, (TIA603D)-2-tone | 45 dB (12.5 kHz channel), 70 dB (25 kHz channel) |
| Spurious Rejection (TIA603D)                   | 70 dB  |



**AUDIO SPECIFICATIONS**

|  |  |
|--|--|
| Digital Vocoder Type                   | AMBE+2™  |
| Audio Response                         | TIA603D  |
| Rated Audio                            | 0.5 W  |
| Audio Distortion at Rated Audio        | 5% (3% typical)                                      |
| Hum and Noise                          | -40 dB (12.5 kHz channel)<br>-45 dB (25 kHz channel) |
| Conducted Spurious Emissions (TIA603D) | -57 dBm  |

**BLUETOOTH SPECIFICATIONS**

|                             |   |
|-----------------------------|---|
| Version                     | 4   |
| 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  |

**ENVIRONMENTAL SPECIFICATIONS**

|                                    |                                 |
|------------------------------------|---------------------------------|
| Operating Temperature <sup>3</sup> | -22 F to 140 F (-30 C to +60 C) |
| Storage Temperature                | -40 F to 185 F (-40 C to +85 C) |
| Electrostatic Discharge            | IEC 61000-4-2 Level 3           |
| Dust and Water Intrusion           | IEC 60529 - IP54                |
| Packaging Test                     | MIL-STD 810D and E              |

**WiFi SPECIFICATIONS**

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

**MILITARY STANDARDS**

|                   | 810C    |                          | 810D    |                     | 810E    |                     | 810F    |                     | 810G    |                     |
|-------------------|---------|--------------------------|---------|---------------------|---------|---------------------|---------|---------------------|---------|---------------------|
|                   | Methods | Procedures               | Methods | Procedures          | Methods | Procedures          | Methods | Procedures          | Methods | 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   | 1/A1, II/A1         |
| 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/C1         |
| Temperature 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              |
| Humidity          | 507.1   | II                       | 507.2   | II/Hot-Humid        | 507.3   | II/Hot-Humid        | 507.4   | -                   | 507.5   | II - Aggravated     |
| Salt fog          | 509.1   | I                        | 509.2   | I                   | 509.3   | I                   | 509.4   | -                   | 509.5   | -                   |
| Dust              | 510.1   | I                        | 510.2   | I                   | 510.3   | I                   | 510.4   | I                   | 510.5   | I                   |
| Sand              | -       | -                        | 510.2   | II                  | 510.3   | II                  | 510.4   | II                  | 510.5   | II                  |
| Vibration         | 514.2   | VIII/CatF/<br>CurveW, XI | 514.3   | I/Cat10,<br>II/Cat3 | 514.4   | I/Cat10,<br>II/Cat3 | 514.5   | I/Cat24,<br>II/Cat5 | 514.6   | I/Cat24,<br>II/Cat5 |
| Shock             | 516.2   | I, II                    | 516.3   | I, IV               | 516.4   | I, IV               | 516.5   | I, IV               | 516.6   | I, IV, V, VI        |

1: Radio frequency > 470MHz, only 2W for Digital.

2: Typical battery life, 5/5/90 profile at maximum transmitter power with Bluetooth and Wi-Fi disabled. Actual observed runtimes may vary.

3: Radio only. Operating temperature specification for a Li-Ion battery is -10 C to +60 C. Specifications subject to change without notice.

All specifications shown are typical values

For more information, please visit us on the web at: [www.motorolasolutions.com/MOTOTRBO](http://www.motorolasolutions.com/MOTOTRBO)

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