

MOTOTRBO™ SL2M

INSTANT COMMUNICATION,
PROFESSIONAL STYLE



| GENERAL SPECIFICATIONS | | |
|---|------------------------|-------------|
| Model Number | SL2M | |
| Band | VHF | UHF |
| Frequency | 136-174 MHz | 403-470 MHz |
| High Power Output (Digital) | 3 W | |
| High Power Output (Analog) | 2 W | |
| Low Power Output | 0.5, 1W | |
| Channel Spacing | 12.5, 25kHz | |
| Channel Capacity | 256 | |
| 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 | - | - |
| IC Description | - | - |
| Digital / Analog Battery Life ¹ (Li-Ion (2300mAh) Battery) | 13.5 / 11 hrs | |
| Power Supply (Nominal) | 3.7 V | |

| 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 | ± 0.5 ppm |

ADDITIONAL FEATURES

- Transmit Interrupt
- Enhanced Privacy
- Fixed Privacy Key Decryption
- Bluetooth Audio
- Bluetooth Data
- Indoor Location
- Intelligent Audio
- Mute Mode
- Noise Suppressor
- Quick Text Messaging

| 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) -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 ² | -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

| Applicable MIL-STD | 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 | I/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/ CurveW, XI | 514.3 | I/Cat10, II/Cat3 | 514.4 | I/Cat10, II/Cat3 | 514.5 | I/Cat24, II/Cat5 | 514.6 | I/Cat24, 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: Typical battery life, 5/5/90 profile at maximum transmitter power with Bluetooth and Wi-Fi disabled. Actual observed runtimes may vary.

2: 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

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