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	

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

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

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

	810C		810D		810E		810F		810G	
Applicable MIL-STD	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/ 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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