

MOTOTRBO[™] SL1M PORTABLE RADIO

PORTABILITY AND SIMPLICITY REDEFINED



The MOTOTRBO[™] SL1M provides reliable push-to-talk communication for the mobile, everyday user in an ultra-slim and rugged profile. Whether you're coordinating an event or working in the field, the SL1M is boldly designed to keep you efficiently connected.

The latest technology works to make operation of the SL1M simple and straightforward. Ergonomic design allows one-handed radio operation, and a versatile accessory portfolio gives you the freedom to focus on the job at hand.

The SL1M is compatible with the MOTOTRBO features you'll find are business-essential, for example a transmission can be interrupted to prioritize critical communications. Additionally, the SL1M utilizes digital and analog radio technology concurrently to fit seamlessly into your existing communication system.

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ULTRA-SLIM PROFILE

Measuring under an inch thick, the SL1M is ultra-portable. A stubby antenna, curved edges and rugged frame make the SL1M the perfect work partner. It can be easily carried in pockets and purses without snagging or bulging.

ADVANCED TECHNOLOGY

The SL1M is outfitted with the latest technology for performance and ease of use. The shatterproof Active View display uses a matrix of LEDs behind the radio housing to communicate radio information and shuts off when not in use to conserve battery life. The SL1M features Range Max technology: an advanced radio design and patented antenna which delivers enhanced range while maintaining a slim profile and long battery life.

SIMPLE OPERATION

The SL1M has been designed for easy, intuitive use. The side volume control, dedicated power button, prominent push-to-talk button, and top toggle channel switch have all been designed for quick one-hand access. Channel "fast toggle" allows users to scroll through 10 channels at a time.

RUGGED AND RELIABLE

The SL1M is built to last. IP54 rated for dust and water resistance, it can be used even in harsh environments. This radio can survive many drops and tumbles. It has also been proven tough in Motorola's grueling Accelerated Life Test, where the radio is tested against a simulated 5 years of hard service before it is accepted. IC Description

GENERAL SPECIFICATIONS UHF BAND 1 VHF Display Display Channel Capacity 256 Typical RF Output 1W 2W Low Power Output with Range Max technology High Power Output Analog 3W_ Digital 136-174 MHz 403-470 MHz Frequency 4.95 X 2.17 x 0.87 in (125.7 X 55.0 X 22.0 mm) Dimensions (H x W x L) Weight with Battery 5.76 oz/ 163.4 g Power Supply 3.7V (Nominal) Battery Life [Li-Ion (2200mAh) Battery] Analog (hours) Digital (hours) 11.8 14 FCC Description AZ489FT4922 AZ489FT3835

109U-89FT3835

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RECEIVER		
	VHF	UHF BAND 1
Frequency	136-174 MHz	403-470 MHz
Channel Spacing	12.5 kHz ,	′ 25 kHz
Frequency Stability (-30°C, +60°C, +25°C Ref)	± 0.5	pm
Analog Sensitivity (12 dB SINAD)	0.3 0.22 uV (
Digital Sensitivity (5% BER)	0.25 0.19 uV (
Intermodulation (TIA603D)	700	В
Adjacent Channel Selectivity (TIA603D)	45 dB @ 70 dB @	
Spurious Rejection (TIA603D)	70 0	IB
Rated Audio	0.5 W (Ir	iternal)
Audio Distortion @ Rated Audio	5% (3%	typical)
Hum and Noise	-40 dB @ -45 dB @	
Audio Response	TIA6)3D
Conducted Spurious Emissions (TIA603D)	-57 d	Bm

¹ Average battery life at 5/5/90 duty cycle, transmitter in high power. Actual battery runtime observed may vary. Specifications subject to change without notice. All specifications shown are typical.





	VHF	UHF BAND 1
Frequency	136-174 MHz	403-470 MHz
Channel Spacing	12.5 kHz /	/ 25 kHz
Frequency Stability -30°C, +60°C, +25°C Ref)	± 0.5 j	opm
.ow Power Output High Power Output Analog Digital	1W 2W 3W	/
Modulation Limiting	± 2.5 kHz @ ± 5.0 kHz @	
M Hum and Noise	-40 dB @ -45 dB @	
Conducted / Radiated Emission	-36 dBm < -30 dBm :	
Adjacent Channel Power	60 dB @ 1 70 dB @	
Audio Response	TIA60)3D
Audio Distortion	3% (typ	pical)
IFSK Digital Modulation	12.5kHz Data: 7K6 12.5kHz Voice: 7K6 Combination of 12.5kHz Vo	0F1E & 7K60FXE
Digital Vocoder Type	AMBE	+2 TM
Digital Protocol	ETSI TS 102 3	361-1, -2, -3



	81	10C	8	10D	:	810E	1	310F		810G
Applicable MIL-STD	Methods	Procedures	Methods	Procedures	Methods	Procedures	Methods	Procedures	Methods	Procedures
Low Pressure	500.1	1	500.2	11	500.3	11	500.4	11	500.5	Ш
High Temperature	501.1	1, 11	501.2	I/A1,II/A1	501.3	I-A1, II/A1	501.4	I/Hot, II/Hot	501.5	I-A1, II
Low Temperature	502.1	1	502.2	I/C3, II/C1	502.3	I-C3, II/C1	502.4	I-C3, II/C1	502.5	I-C3, II
Temperature Shock	503.1	-	503.2	I/A1/C3	503.3	I/A1/C3	503.4	1	503.5	I-C
Solar Radiation	505.1	11	505.2	1	505.3	1	505.4	1	505.5	I-A1
Rain	506.1	1, 11	506.2	1, 11	506.3	1, 11	506.4	1, 111	506.5	1, 111
Humidity	507.1	11	507.2	11	507.3	11	507.4	-	507.5	II - Aggravated
Salt fog	509.1	-	509.2	-	509.3	-	509.4	-	509.5	-
Dust	510.1	1	510.2	1	510.3	1	510.4	1	510.5	1
Vibration	514.2	VIII/F, Curve-W	514.3	I/10, II/3	514.4	I/10, II/3	514.5	1/24	514.6	I-cat.24
Shock	516.2	1, 11	516.3	I, IV	516.4	I, IV	516.5	I, IV	516.6	I, IV, V, VI

ENVIRONMENTAL SPECIFICATIONS		
Operating Temperature	-30°C / +60°C	
Storage Temperature	-40°C/+85°C	
Thermal Shock	Per MIL-STD	
Humidity	Per MIL-STD	
ESD	IEC 61000-4-2 Level 3	
Dust and Water Intrusion	IEC60529 - IP54	
Packaging Test	MIL-STD 810D and E	

Specifications subject to change without notice. All specifications shown are typical.



MOTOTRBO SL1M SERIES ACCESSORIES



PMLN7076

CARRY ACCESSORIES

Our versatile portfolio includes a flexible hand strap, rotating heavy duty belt clip, and swivel carry holster. A nylon wrist strap also can be attached at the top of the radio.

PART #	DESCRIPTION
PMLN6074	Nylon Wrist Strap
PMLN7076	Flexible Quick Release Hand Strap
PMLN7128	Heavy-Duty Swivel Belt Clip
PMLN7190	Carry Holder/Holster with Swivel Belt Clip



Outfit your SL1M with high efficiency stubby antennas. Colored antenna ID bands are available for easy customization.

PART #	DESCRIPTION
PMAE4093	UHF Stubby Antenna for the 403-425MHz range (4.5cm)
PMAE4094	UHF Stubby Antenna for the 420-445MHz range (4.5cm)
PMAE4095	UHF Stubby Antenna for the 435-470MHz range (4.5cm)
PMAD4144	VHF Stubby Antenna for the 136-144MHz range (5cm)
PMAD4145	VHF Stubby Antenna for the 144-156MHz range (5cm)
PMAD4146	VHF Stubby Antenna for the 156-174MHz range (5cm)
32012144001	Antenna ID Band (Gray, Pack of 10)
32012144002	Antenna ID Band (Yellow, Pack of 10)
32012144003	Antenna ID Band (Green, Pack of 10)
32012144004	Antenna ID Band (Blue, Pack of 10)
32012144005	Antenna ID Band (Purple, Pack of 10)

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MOTOTRBO audio accessories for SL1M are designed for lasting comfort and improved device performance. In-line microphones and prominent push-to-talk features provide easy hands-free communication.

PART #	DESCRIPTION
PMLN7189	Swivel Earpiece with in-line microphone and push-to-talk
PMLN7156	Mag One Earbud with in-line microphone and push-to-talk
PMLN7157	2-Wire Surveillance Kit with translucent tube, black
PMLN7158	1-Wire Surveillance Kit with in-line microphone and push-to-talk, black
PMLN7159	Adjustable D-style earpiece with in-line microphone and push-to-talk, black Available Q1 2015
RLN6242	Low Noise Kit with translucent tube and 1 clear rubber eartip
5080384F72	Replacement Foam Plugs for RLN6242. Noise Reduction = 24dB. Pack of 50 pairs.
RLN6282	Replacement standard clear rubber eartip for RLN6242. Pack of 50



BATTERIES, CHARGERS AND CABLES

Keep your radios functioning at all times with these essentials. Charge your Lithium Ion batteries in MOTOTRBO single or multi-unit charging docks.

PART #	DESCRIPTION
PMNN4468	BT100x Li-lon 2200 mAh battery
PMLN7074	Replacement Battery Cover
PS000042A11	Power Supply Adapter, AC/DC, Switch Mode, 5W, 100 V- 240 V, Micro-USB, US
PS000042A12	Power Supply Adapter, AC/DC, Switch Mode, 5W, 100 V- 240 V, Micro-USB, EU
PS000042A13	Power Supply Adapter, AC/DC, Switch Mode, 5W, 100 V- 240 V, Micro-USB, UK
CB000262A01	Micro USB Programming Cable
PMLN7109	CHR STD SUC EXT US
PMLN7110	CHR STD SUC EXT EU
PMLN7163	CHR STD SUC EXT UK
PMLN7101	CHR STD MUC INT US
PMLN7102	CHR STD MUC INT EU
PMLN7162	CHR STD MUC INT UK

For more information, go to motorolasolutions.com/ap/mototrbo



