

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.



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.

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.

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.

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.

	VHF	UHF BAND 1		
	Display	Display		
Channel Capacity	25	6		
Typical RF Output				
Low Power Output High Power Output Analog Digital	1W 2W 3W with Range Max technology			
Frequency	136-174 MHz	403-470 MHz		
Dimensions H x W x L)	4.95 X 2.17 (125.7 X 55.0			
Weight with Battery	5.76 oz/ 163.4 g			
Power Supply	3.7V (Nominal)			
Battery Life [Li-Ion (2300mAh) Battery]				
Analog (hours) Digital (hours)	11.			
FCC Description	AZ489FT3835	AZ489FT4922		
IC Description	109U-89FT3835	109U-89FT4922		

	VHF	UHF BAND 1
requency	136-174 MHz	403-470 MHz
Channel Spacing	12.5 kHz / 25	i kHz
requency Stability 30°C, +60°C, +25°C Ref)	± 0.5 ppr	n
Analog Sensitivity 12 dB SINAD)	0.3 uV 0.22 uV (typ	ical)
Digital Sensitivity 5% BER)	0.25 uV 0.19 uV (typ	
ntermodulation (TIA603D)	70dB	
djacent Channel Selectivity IA603D)	45 dB @ 12.5 70 dB @ 25	
purious Rejection (TIA603D)	70 dB	
ated Audio	0.5 W (Inter	nal)
Audio Distortion @ Rated Audio	5% (3% typ	ical)
lum and Noise	-40 dB @ 12. -45 dB @ 25	
Audio Response	TIA603D	1
Conducted Spurious Emissions TIA603D)	-57 dBm	

 $^{^{*}}$ 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.











TRANSMITTER			
	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 (ppm	
Low Power Output High Power Output Analog Digital	1W 2W 3W	V	
Modulation Limiting	± 2.5 kHz @ ± 5.0 kHz (
FM Hum and Noise	-40 dB @ 12.5 kHz -45 dB @ 25 kHz		
Conducted / Radiated Emission	-36 dBm < 1 GHz -30 dBm > 1 GHz		
Adjacent Channel Power 60 dB @ 12.5 kHz 70 dB @ 25 kHz			
Audio Response	TIA60	03D	
Audio Distortion	3% (ty)	pical)	
4FSK Digital Modulation	12.5kHz Data: 7K6 12.5kHz Voice: 7K6 Combination of 12.5kHz Vo	60F1E & 7K60FXE	
Digital Vocoder Type AMBE +2™			
Digital Protocol ETSI TS 102 361-1, -2, -3		361-1, -2, -3	



	81	OC	81	10D	81	IOE	81	IOF		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	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	I	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	II	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	II	507.2	II	507.3	II	507.4	-	507.5	II - Aggravated
Salt fog	509.1	-	509.2	-	509.3	-	509.4	-	509.5	-
Dust	510.1	I	510.2	1	510.3	1	510.4	1	510.5	I
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	



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MOTOTRBO SL1M SERIES ACCESSORIES



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



ANTENNAS

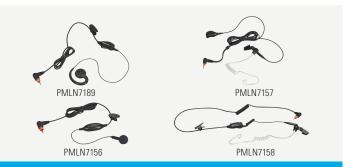
Outfit your SL1M with high efficiency stubby antennas. Colored antenna ID bands are available for easy customization.

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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AUDIO ACCESSORIES

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.

PMNN4468 BT100x Li-lon 2300 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	PART#	DESCRIPTION
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	PMNN4468	BT100x Li-lon 2300 mAh battery
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	PMLN7074	Replacement Battery Cover
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	PS000042A11	Power Supply Adapter, AC/DC, Switch Mode, 5W, 100 V- 240 V, Micro-USB, US
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	PS000042A12	Power Supply Adapter, AC/DC, Switch Mode, 5W, 100 V- 240 V, Micro-USB, EU
PMLN7109 CHR STD SUC EXT US PMLN7110 CHR STD SUC EXT EU PMLN7163 CHR STD SUC EXT UK PMLN7101 CHR STD MUC INT US	PS000042A13	Power Supply Adapter, AC/DC, Switch Mode, 5W, 100 V- 240 V, Micro-USB, UK
PMLN7110 CHR STD SUC EXT EU PMLN7163 CHR STD SUC EXT UK PMLN7101 CHR STD MUC INT US	CB000262A01	Micro USB Programming Cable
PMLN7163 CHR STD SUC EXT UK PMLN7101 CHR STD MUC INT US	PMLN7109	CHR STD SUC EXT US
PMLN7101 CHR STD MUC INT 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	PMLN7102	CHR STD MUC INT EU
PMLN7162 CHR STD MUC INT UK	PMLN7162	CHR STD MUC INT UK

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

