MOTOTRBO™ SL300 PORTABLE RADIO

PORTABILITY AND SIMPLICITY REDEFINED

The MOTOTRBO™ SL300 provides reliable push-to-talk communication for the mobile, everyday user in an ultra-slim and rugged profile. Whether you're coordinating a school event or working in the field, the SL300 is boldly designed to keep you efficiently connected.

The latest technology works to make operation of the SL300 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 SL300 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 SL300 utilizes digital and analog radio technology concurrently to fit seamlessly into your existing communication system.

ULTRA-SLIM PROFILE

Measuring under an inch thick, the SL300 is ultra-portable. A stubby antenna, curved edges and rugged frame make the SL300 the perfect work partner. It can be easily carried in pockets and purses without snagging or bulging.

SIMPLE OPERATION

SL300 has been designed for easy, intuitive use. The Active View display uses a matrix of LEDs behind the radio housing to communicate radio information. 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 SL300 is outfitted with the latest technology for performance and ease of use. It has trunking capability, and is supported on small Capacity Plus systems. The SL300 features Range Max: an advanced technology which delivers enhanced communication capability with a slim profile and long battery life. The SL300 3W digital radio with Range Max delivers communication performance equivalent to most 4W digital radios.

RUGGED AND RELIABLE

The SL300 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.

GENERAL SPECIFICATIONS

	VHF		UHF BAND 1	
	PLAIN	**DISPLAY**	**PLAIN**	**DISPLAY**
Channel Capacity	2	99	2	99
Typical RF Output				
Low Power Output	1W ⎤			
High Power Output Analog	2W ⎬ with Range Max technology			
Digital	3W ⎦			
	3W digital radio with Range Max technology provides communication performance equivalent to most 4W digital radios.			
Frequency	136-174 MHz		403-470 MHz	
Dimensions (H x W x L)	4.95 X 2.17 x 0.87 in (125.7 X 55.0 X 22.0 mm)			
Weight with Battery	5.96 oz (168.9 g)		5.84 oz (165.6 g)	
Power Supply	3.7V (Nominal)			
Battery Life[1] [Li-Ion (2300mAh) Battery] Analog (hours) Digital (hours)	12.5 15	11.8 14	12.5 15	11.8 14
FCC Description	AZ489FT3835		AZ489FT4922	
IC Description	109U-89FT3835		109U-89FT4922	

RECEIVER

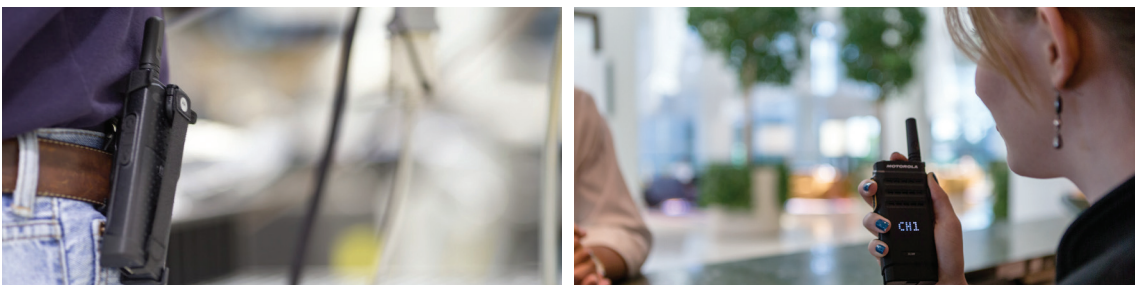|	VHF	UHF BAND 1
Frequency	136-174 MHz	403-470 MHz
Channel Spacing	12.5 kHz / 25 kHz[2]	
Frequency Stability (-30°C, +60°C, +25°C Ref)	± 1.5 ppm	
Analog Sensitivity (12 dB SINAD)	0.3 uV 0.22 uV (typical)	
Digital Sensitivity (5% BER)	0.25 uV 0.19 uV (typical)	
Intermodulation (TIA603D)	70dB	
Adjacent Channel Selectivity (TIA603D)	45 dB @ 12.5 kHz 70 dB @ 25 kHz[2]	
Spurious Rejection (TIA603D)	70 dB	
Rated Audio	0.5 W (Internal)	
Audio Distortion @ Rated Audio	5% (3% typical)	
Hum and Noise	-40 dB @ 12.5 kHz -45 dB @ 25 kHz[2]	
Audio Response	TIA603D	
Conducted Spurious Emissions (TIA603D)	-57 dBm	

[1] Average battery life at 5/5/90 duty cycle, transmitter in high power. Actual battery runtime observed may vary.

[2] 25 kHz operation is not available in the U.S.

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

Actual field communication performance will vary, depending on factors such as terrain, weather conditions, electromagnetic interference and obstructions.

TRANSMITTER

	VHF	UHF BAND 1
Frequency	136-174 MHz	403-470 MHz
Channel Spacing	12.5 kHz / 25 kHz[1]	
Frequency Stability (-30°C, +60°C, +25°C Ref)	± 1.5 ppm	
Low Power Output High Power Output Analog Digital	1W 2W ⎫ with Range Max technology 3W ⎭ 3W digital radio with Range Max technology provides communication performance equivalent to most 4W digital radios.	
Modulation Limiting	± 2.5 kHz @ 12.5 kHz ± 5.0 kHz @ 25 kHz[1]	
FM Hum and Noise	-40 dB @ 12.5 kHz -45 dB @ 25 kHz[1]	
Conducted / Radiated Emission	-36 dBm < 1 GHz -30 dBm > 1 GHz	
Adjacent Channel Power	60 dB @ 12.5 kHz 70 dB @ 25 kHz[1]	
Audio Response	TIA603D	
Audio Distortion	3% (typical)	
4FSK Digital Modulation	12.5kHz Data: 7K60F1D & 7K60FXD 12.5kHz Voice: 7K60F1E & 7K60FXE Combination of 12.5kHz Voice and Data: 7K60F1W	
Digital Vocoder Type	AMBE +2™	
Digital Protocol	ETSI TS 102 361-1, -2, -3	

	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	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	I	503.5	I/C
Solar Radiation	505.1	II	505.2	I	505.3	I	505.4	I	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	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	I	510.3	I	510.4	I	510.5	I
Vibration	514.2	VIII/F, Curve-W	514.3	I/10, II/3	514.4	I/10, II/3	514.5	I/24	514.6	I/24, II/5
Shock	516.2	I, II	516.3	I, IV	516.4	I, IV	516.5	I, IV	516.6	I, IV, V, VI

ENVIRONMENTAL SPECIFICATIONS

Operating Temperature[2]	-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

[1] 25 kHz operation is not available in the U.S.
[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.
Actual field communication performance will vary, depending on factors such as terrain, weather conditions, electromagnetic interference and obstructions

MOTOTRBO SL300 SERIES ACCESSORIES

PMLN7076   PMLN7128   PMLN7190

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
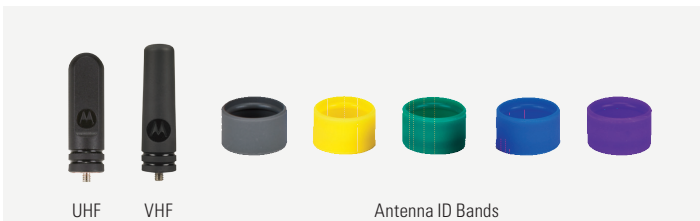
UHF   VHF   Antenna ID Bands

ANTENNAS

Outfit your SL300 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)

PMLN7189   PMLN7157

PMLN7156   PMLN7158

AUDIO ACCESSORIES

MOTOTRBO audio accessories for SL300 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

PMLN7109   PMLN7101   PMNN4468

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	Li-Ion 2300 mAh battery
PMLN7074	Replacement Battery Cover
25009298001	Micro-USB Single-Unit Rapid Rate 5V/1A, Plug-In Power Supply, 5W, 100V-240V (US plug)
PMLN7101	Six-Pocket Multi-Unit Rapid Rate Charger, 90V-264V (US plug)
PMLN7109	Single-Unit Rapid Rate Charger 5V/1A, 5W, 100V-240V (US Plug)
CB000262A01	Micro USB Programming Cable

For more information, go to www.motorolasolutions.com/sl300

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DIGITAL REMASTERED.

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