



MOTOTRBO™ SL8550

GENERAL SPECIFICATIONS

Channel Capacity	1000
Frequency	403 - 470 MHz
BT70 Li-ion (1400mAh) Battery	4.76 Wx 2.17 H x .78 T inches (121 x 55 x 19.8 mm)
Weight:	5.39 oz/ 153 g
BT90 Li-ion (1800mAh) Battery	4.76 W x 2.17 H x .78 T inches (121 x 55 x 19.8 mm)
Weight:	5.82 oz / 165 g
Power Supply	3.7 V (Nominal)
Operating Temperature	-20 ~ +60 °C ¹
FCC Description	ABZ99FT4090
IC Description	109AB-99FT4090

Average battery life at 5/5/90 duty cycle with battery saver enabled²

BT70 Li-ion (1400mAh) Battery	8.5 hrs
BT90 Li-ion (1800mAh) Battery (Shipped standard in SL8550 model)	11.5 hrs

Note: Model SL8550 includes standard the integrated Expansion Card, which allows the radio to expand its functionalities via third party applications.

RECEIVER

Frequencies	403 - 470 MHz
Channel Spacing:	12.5 kHz
Frequency Stability	±1.5ppm
Digital Sensitivity	5% BER : 0.3uV
Rated Audio	0.5W
Conducted Spurious Emission (TIA603D)	-57dBm

TRANSMITTER

Frequencies:	403 - 470 MHz
Channel Spacing	12.5 kHz
Frequency Stability	±1.5ppm
Low Power Output	2W
4FSK Digital Modulation	12.5kHz Data: 7K60F1D & 7K60FXD 12.5kHz Voice: 7K60F1E & 7K60FXE Combination of 12.5kHz Voice and Data: 7K60F1W
Conducted/Radiated Emission (TIA603D)	-36 dBm < 1GHz / -30 dBm > 1GHz
Digital Vocoder Type:	AMBE+2™
Digital Protocol	ETSI TS 102 361 -1,-2,-3

ENVIRONMENTAL SPECIFICATIONS

Operating Temperature	-20° C to +60° C
Storage Temperature	-30° C to +70° C
Thermal Shock	Per MIL-STD
Humidity	8 hr soak @ +50° C and 95% RH
ESD	IEC 61000-4-2
Dust and Water Intrusion	IP54
Salt Fog	8 hrs exposure to 5% saline solution (sodium chloride) at 35° C, 16 hours standing period
Packaging Test	MIL-STD 810D and E
BLUETOOTH®	
Version	Supports Bluetooth® 2.1 + EDR Specification
Range	Class 1, 10 meters

MILITARY STANDARDS

	MIL-STD- 810C		MIL-STD- 810D		MIL-STD- 810E		MIL-STD- 810F		MIL-STD- 810G	
	METHOD	PROCEDURES	METHOD	PROCEDURES	METHOD	PROCEDURES	METHOD	PROCEDURES	METHOD	PROCEDURES
APPLICABLE MIL-STD										
Low Pressure:	500.1	I	500.2	II	500.3	II	500.4	II	500.4	II
High Temperature	501.1	I	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	-	-	502.2	I/C1, II/C1	502.3	I/C1, II/C1	502.4	I/C1, II/C1	502.5	I/C1, II/C1
Temperature Shock	-	-	503.2	I/A1/C1	503.3	I/A1/C1	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	506.2	I	506.3	I	506.4	I	506.5	I
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, III/3	514.5	I/24	514.6	I/24
Shock	516.2	II	516.3	IV	516.4	IV	516.5	IV	516.6	IV, VI

¹ Radio only - Li-ion battery -10C

² Actual battery runtime observed may vary based on the use of certain features such as Bluetooth® and Option Board based applications.

Please contact your Motorola sales representative for battery runtime expectations based on your specific radio configuration.

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

Radio meets applicable regulatory requirements. Version 1 1/12

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