MOTOTRBO™
SL500e

Portable two-way radios

Slim and lightweight, MOTOTRBO SL500e portable two-way radios provide push-to-talk communication in a stylish and discreet design. They blend seamlessly with professional attire, allowing you to move freely. At the same time, they're durable and built to last.
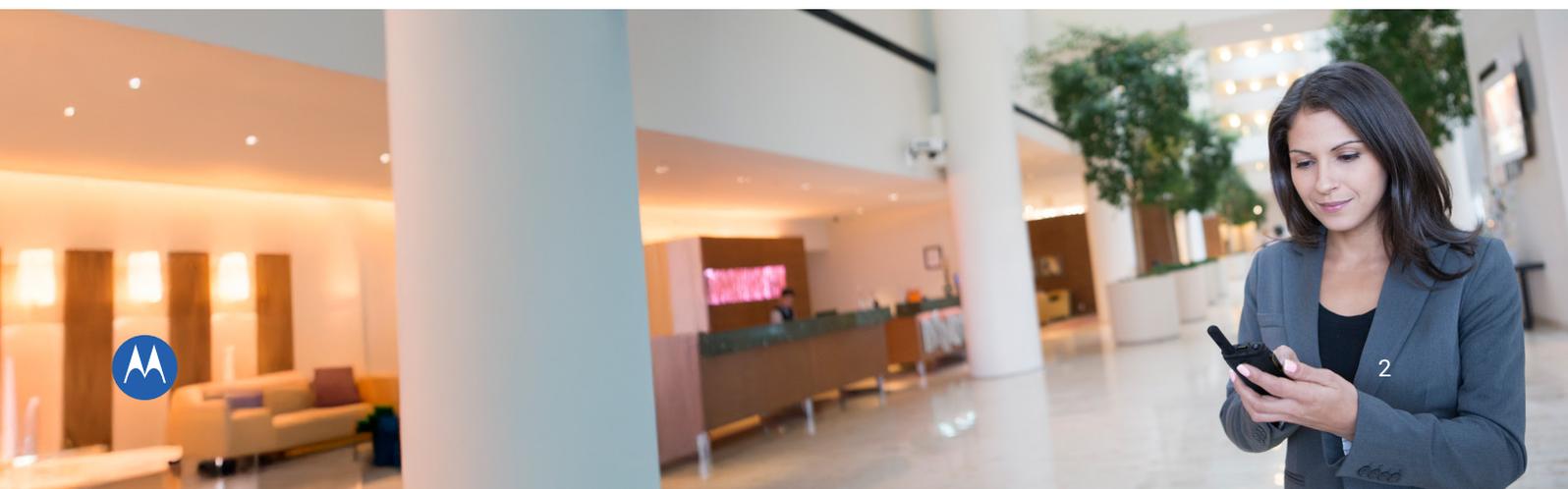
MOTOROLA SOLUTIONS

Key features

- VHF and UHF
- Analogue and digital
- Slim and light form factor
- Voice and data
- Virtual keypad and display
- Covert mode
- Mute mode
- Quick text messaging
- Integrated Wi-Fi
- Bluetooth® audio and data
- Voice announcement
- Home channel reminder

- Intelligent Audio
- Background noise cancellation
- Acoustic feedback suppressor
- Microphone distortion control
- User-selectable audio profiles
- Trill enhancement
- Three programmable buttons
- Over-the-air software update
- Lone worker
- Basic privacy
- Enhanced privacy
- Transmit interrupt

- Unified call list
- Notification list
- Radio service menu
- Ignore clear signal
- Digital emergency
- Emergency search tone
- Remote monitor
- Radio disable / enable
- Splashproof to IP54
- Rugged to MIL-STD 810
- Wide range of accessories

GENERAL SPECIFICATIONS		
	SL500e	
Band	VHF	UHF
Frequency	136-174 MHz	403-480 MHz
High power output[1] (digital)	3 W	
High power output (analogue)	2 W	
Low power output	0.5 W, 1 W	
Channel spacing	12.5, 25 kHz	
Channel capacity	128	
Zone capacity	50	
Display	Virtual display and keypad activates when touched. Two line OLED display and 4-button virtual keypad	
Power supply (nominal)	3.7 V	
MOTOTRBO SL500e WITH SLIM LI-ION 2300 MAH BATTERY (PMNN4468)		
Dimensions (H x W xD)	126 x 55 x 23 mm (4.95 x 2.16 x 0.89 in)	
Weight	190 g (6.7 oz)	
Battery life[2] digital / analogue	13.5 / 11 hours	

Specifications

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, DMR Tier II
Conducted/radiated emissions (TIA603D)	-36 dBm, <1 GHz, -30 dBm >1 GHz
Adjacent channel power	60 dB (12.5 kHz channel) 70 dB (25 kHz channel)
Frequency stability	±1.5 ppm

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	4.0
Range	Class 2, 10 m (33 ft)
Supported profiles	Bluetooth Headset Profile (HSP), Serial Port Profile (SPP), Motorola Solutions fast push-to-talk
Simultaneous connections	1 x audio accessory and 1 x data device
Permanent discoverable mode	Optional

RECEIVER SPECIFICATIONS

Analogue sensitivity (12dB SINAD)	0.3 µV, 0.22 µV (typical)
Digital sensitivity (5% BER)	0.25 µV, 0.19 µV (typical)
Intermodulation (TIA603D)	70 dB
Adjacent channel Selectivity, (TIA603A)-1T	60 dB (12.5 kHz channel) 70 dB (25 kHz channel)
Adjacent channel Selectivity, (TIA603D)-2T	45 dB (12.5 kHz channel) 70 dB (25 kHz channel)
Spurious rejection (TIA603D)	70 dB

ENVIRONMENTAL SPECIFICATIONS

Operating temperature[3]	-30 °C to 60 °C (-22 °F to 140 °F)
Storage temperature	-40 °C to 85 °C (-40 °F to 185 °F)
Electrostatic discharge	IEC 61000-4-2 level 3
Dust and water intrusion	IEC 60529 - IP54
Packaging test	MIL-STD 810D, E

WI-FI SPECIFICATIONS

Standards supported	IEEE 802.11b, 802.11g, 802.11n
Security protocol supported	WPA, WPA2, WEP
Maximum number of SSIDs	128

MILITARY STANDARDS

	MIL-STD 810C		MIL-STD 810D		MIL-STD 810E		MIL-STD 810F		MIL-STD 810G	
	Method	Procedure/category	Method	Procedure/category	Method	Procedure/category	Method	Procedure/category	Method	Procedure/category
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/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	I/A1/C3	503.3	I/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	-
Blowing dust	510.1	I	510.2	I	510.3	I	510.4	I	510.5	I
Blowing sand	-	-	510.2	II	510.3	II	510.4	II	510.5	II
Vibration	514.2	VIII/CatF, XI	514.3	I/10, II/3	514.4	I/10, II/3	514.5	I/24, II/5	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

Features

	SL500e
GENERAL	
Virtual display and keypad	●
Analogue and digital	●
Voice and data	●
Quick text messaging	●
Integrated Wi-Fi	●
Bluetooth audio	●
Bluetooth data	●
Indoor location tracking	○
Voice announcement	●
Home channel reminder	●
Late entry	●
Priority scan	●
Covert mode	●
IP54	●
Rugged to MIL-STD 810	●
AUDIO	
Intelligent Audio	●
SINC+ background noise cancellation	○
Acoustic feedback suppressor (digital)	●
User-selectable audio profile	●
Trill enhancement	●
Microphone distortion control	●
Received audio levelling	●
Mute mode	●
Voice operated transmit (VOX)	●

	SL500e
MANAGEMENT	
CPS 2.0 and Radio Management	●
Over-the-air programming (via DMR)	●
Over-the-air software update (via Wi-Fi)	○
Rental timer	●
SAFETY	
Emergency alert	●
Lone worker	●
Transmit Interrupt	●
Basic privacy	●
Enhanced privacy	○
Remote monitor	●
Digital emergency	●
Emergency search tone	●
Radio disable / enable	●
CUSTOMISATION	
Programmable buttons	3
SYSTEMS	
Dual Capacity Direct Mode	●
Conventional	●
IP Site Connect	○
Capacity Plus single site	○
Capacity Plus multi-site	○

● Included   ○ Optional   — Not Included

[1] Maximum 2 W for frequencies above 470 MHz.
[2] Typical battery life, 5/5/90 profile at maximum transmitter power with Bluetooth and Wi-Fi disabled. Actual observed runtimes may vary.
[3] Radio only. Operating temperature with battery -10° C to +60 C.

To learn more about MOTOTRBO, visit:

motorolasolutions.com/mototrbo

MOTOROLA *SOLUTIONS*