

# MOTOTRBO™ SL3500e and SL3500Max

## Portable two-way radios

Slim and lightweight, the MOTOTRBO SL3500e and SL3500Max 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.

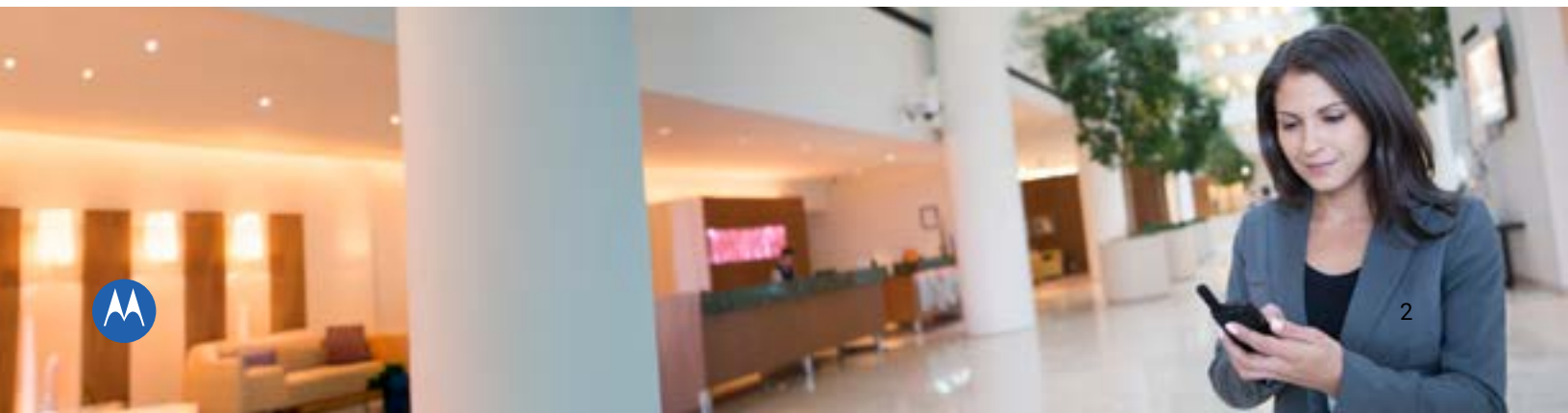


## Key features

- VHF and UHF
- Analog and digital
- Slim and light form factor
- Voice and data
- Virtual keypad and display
- Covert mode
- Mute mode
- Canned 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

SL3500e, SL3500Max		
Band	VHF	UHF
Frequency	136-174 MHz	403-470 MHz
High power output <sup>1</sup> (digital)	3 W	
High power output (analog)	2 W	
Low power output	0.5 W, 1 W	
Channel spacing	12.5, 25 <sup>2</sup> kHz	
Channel capacity	128	
Zone capacity	50	
Display	Virtual display and keypad activates when touched. Two line OLED display and 4-button virtual keypad	
FCC Description	AZ489FT7107	AZ489FT7106
IC Description	109U-89FT7107	109U-89FT7106
Power supply (nominal)	3.7 V	
MOTOTRBO SL3500e AND SL3500Max WITH SLIM LI-ION 2300 MAH BATTERY (PMNN4468)		
Dimensions (H x W x D)	126 x 55 x 23 mm (4.95 x 2.16 x 0.89 in)	
Weight	190 g (6.7 oz)	
Battery life <sup>3</sup> 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 <sup>4</sup>	ETSI TS 102 361-1, -2, -3, -4 DMR Tier II and DMR Tier III
Conducted/radiated emissions (TIA603D)	-36 dBm, <1 GHz, -30 dBm >1 GHz
Adjacent channel power	60 dB (12.5 kHz channel) 70 dB (25 <sup>2</sup> 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 <sup>2</sup> 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

## 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

## 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 <sup>2</sup> kHz channel)
Adjacent channel Selectivity, (TIA603D)-2T	45 dB (12.5 kHz channel) 70 dB (25 <sup>2</sup> kHz channel)
Spurious rejection (TIA603D)	70 dB

## ENVIRONMENTAL SPECIFICATIONS

Operating temperature <sup>5</sup>	-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



# Features

	SL3500e	SL3500Max
<b>GENERAL</b>		
Virtual display and keypad	●	●
Analog and digital	●	●
Voice and data	●	●
Canned text messaging	●	●
Integrated Wi-Fi	○	●
Bluetooth audio	●	●
Bluetooth data	●	●
Voice announcement	●	●
Home channel reminder	●	●
Late entry	●	●
Priority scan	●	●
Covert mode	●	●
IP54	●	●
Rugged to MIL-STD 810	●	●
<b>AUDIO</b>		
Intelligent Audio	●	●
SINC+ background noise cancellation	●	●
Acoustic feedback suppressor (digital)	●	●
User-selectable audio profile	●	●
Trill enhancement	●	●
Microphone distortion control	●	●
Received audio leveling	●	●
Mute mode	●	●
Voice operated transmit (VOX)	●	●

	SL3500e	SL3500Max
<b>MANAGEMENT</b>		
CPS 2.0 and Radio Management	●	●
Over-the-air programming (via DMR)	●	●
Over-the-air software update (via Wi-Fi)	○	●
Rental timer	●	●
<b>SAFETY</b>		
Emergency alert	●	●
Lone worker	●	●
Transmit Interrupt	●	●
Basic privacy	●	●
Enhanced privacy	●	●
Remote monitor	●	●
Digital emergency	●	●
Emergency search tone	●	●
Radio disable / enable	●	●
<b>CUSTOMIZATION</b>		
Programmable buttons	3	3
<b>SYSTEMS</b>		
Dual Capacity Direct Mode	●	●
Conventional	●	●
IP Site Connect	○	○
Capacity Plus single site	○	○
Capacity Plus multi-site	○	○
Capacity Max	—	●

● Included ○ Optional — Not Included

<sup>1</sup> Maximum 2 W for frequencies above 470 MHz.

<sup>2</sup> 25 kHz channels not available in USA.

<sup>3</sup> Typical battery life, 5/5/90 profile at maximum transmitter power with Bluetooth and Wi-Fi disabled. Actual observed runtimes may vary.

<sup>4</sup> SL3500e supports DMR tier II. SL3500Max supports DMR tier II and III.

<sup>5</sup> Radio only. Operating temperature with battery -10° C to +60 C.

To learn more, visit: [www.motorolasolutions.com/SL3500](http://www.motorolasolutions.com/SL3500)



These models available in Motorola Solutions North America region only. Availability varies and is subject to individual country law and regulations. All specifications shown are typical unless otherwise stated and are subject to change without notice.

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