

EXTM Series

EX560•XLSTM

Professional Submersible Two-Way Portable Radio

Signaling

The radio software encompasses Private Line™ and fivetone selective signaling.

X-Pand™ voice compression and low level expansion Crisp, clear and strong audio quality in virtually any noisy environment. Low level expansion allows further

improvements in audio quality by reducing noise usually heard during pauses in conversation.

Voice Operated Transmit (VOX)

Hands-free operation when used with VOX headset accessory.

Adjustable power levels

The radio output power has two settings - low power extends battery life and high power allows the radio to transmit over a greater distance.

Tight / normal squelch

Enhances audio clarity by filtering out unwanted interference. A tight squelch gives clearer playback of messages, while a normal squelch increases coverage.

Enhanced Li-Ion battery performance

Each EX560•XLS radio is fitted as standard with a highcapacity Lithium Ion battery. Providing for longer battery life and having no memory or 'over-charge' side effects, Li-lon batteries offer increased operating times and extended service life when compared to NiCd or NiMH batteries.

Emergency signaling

Sends a help signal to a pre-defined person or group of people.

Programmable channel spacing (12.5/20/25 KHz)

Flexible and easy migration of channel spacing requirements in any situation.

Trunking capability

Designed to operate on LTR® trunking systems, the EX560•XLS can enhance your communication by providing a wider calling range, faster channel access, greater privacy, and higher user and talkgroup capacity.

Talkaround

Freedom to communicate utilizing a system or dispatcher for wide-area coverage, or bypass and talk directly to another unit for easy local unit-to-unit communications.

Allows a user to speak quietly into a radio and still be heard

Call forward

Allows calls to be forwarded to another radio user if you are unable to answer your calls personally.

Full portfolio of accessories

Extend the functionality of your radio even further with a complete portfolio of Motorola Original accessories. You'll find windporting remote speaker microphones with IP57 rating. A selection of FM approved* and IP67 batteries is also available

*Approved for use with FM approved radio units.

Designed to operate in the harshest of outdoor environments, Motorola's EX560•XLS two-way radio provides exceptional quality, performance, durability and reliability to your organization's two-way communication solution.

Designed for durability

The EX560•XLS two-way radio complies with the following standards:

- MIL-STD-810-C, D, E & F
- IP67 sealing against dust and water intrusion
- of five years use

even the harshest outdoor working environments, the EX560•XLS two-way radio helps to ensure

Compact and lightweight

designed Push-to-Talk button that provides easy

noisy environment. X-Pand™ Voice Compression and low level expansion allows further improvements in push of a button.



General Specifications		-					
defier at Specifications	VHF	UHF 1	UHF 2				
requency:	136-174 MHz	403-470 MHz	450-527 MHz				
Channel capacity:	EX500: 16 Channels; EX	(560•XLS, EX600•XLS: 160 Channels					
Power supply:	7.5 Volts +/- 20%						
Dimensions: With standard high capacity lithium battery: With ultra high capacity lithium battery: EX560•XLS with IP67 Li-Ion battery:	Plain Radio 101.5mm x 55.5mm x 101.5mm x 55.5mm x -		Keypad Radio 101.5mm x 55.5mm x 33mm 101.5mm x 55.5mm x 38mm 101.5mm x 56.5mm x 39mm				
Weight: With standard high capacity lithium battery: With ultra high capacity lithium battery: EX560•XLS with IP67 Li-Ion battery:	250 g 270 g		265 g 285 g 320 g				
Average battery life @ (5-5-90 duty cycle): Standard high capacity lithium battery: JItra high capacity lithium battery: P67 Li-lon battery:	Low Power >10 hrs >14 hrs >13 hrs		High Power >7 hrs >10 hrs >10 hrs				
Gealing:	Meets MIL-STD-810-C, D, E & F and IPX7 / IPX4 MIL-STD-810C method 506.1 pro. I & II→EX500, EX600, EX600•XLS, EX560•XLS MIL-STD-810D method 506.2 pro. I & II→EX500, EX600, EX600•XLS, EX560•XLS MIL-STD-810E method 506.3 pro. I & II→EX500, EX600, EX600•XLS, EX560•XLS MIL-STD-810F method 506.4 pro. I & III→EX500•XLS IEC 60529 IPX7→EX560•XLS; IEC 60529 IPX4→EX500, EX600, EX6000•XLS						
Shock:	Meets MIL-STD-810-C, D, E & F MIL-STD-810C method 516.2 pro. II→EX500, EX600, EX600•XLS, EX560•XLS MIL-STD-810D method 516.3 pro. IV→EX500, EX600, EX600•XLS, EX560•XLS MIL-STD-810E method 516.4 pro. IV→EX500, EX600•XLS, EX560•XLS MIL-STD-810F method 516.5 pro. IV→EX560•XLS						
Vibration:	Meets MIL-STD-810-C, D, E & F MIL-STD-810C method 514.2 pro. VIII cat. F→EX500, EX600, EX600•XLS, EX560•XLS MIL-STD-810D method 514.3 pro. I cat. 10→EX500, EX600, EX600•XLS, EX560•XLS MIL-STD-810E method 514.4 pro. I cat. 10→EX500, EX600, EX600•XLS, EX560•XLS MIL-STD-810F method 514.5 pro. I cat. 24→EX560•XLS						
Dust:	Meets MIL-STD-810-C, D, E & F and IP6X / IP5X MIL-STD-810C method 510.1 pro. I→EX500, EX600, EX600•XLS, EX560•XLS MIL-STD-810D method 510.2 pro. I→EX500, EX600, EX600•XLS, EX560•XLS MIL-STD-810E method 510.3 pro. I→EX500, EX600, EX600•XLS, EX560•XLS MIL-STD-810F method 510.4 pro. I→EX560•XLS IEC 60529 IP6X→EX560•XLS; IEC 60529 IP5X→EX500, EX600, EX600•XLS						
Humidity:	Meets MIL-STD-810-C, D, E & F MIL-STD-810C method 507.1 pro. II→EX500, EX600, EX600•XLS, EX560•XLS MIL-STD-810D method 507.2 pro. II→EX500, EX600, EX600•XLS, EX560•XLS MIL-STD-810E method 507.3 pro. II→EX500, EX600, EX600•XLS, EX560•XLS MIL-STD-810F method 507.4→EX560•XLS						
CC Description:	AZ489FT3801	AZ489FT4844	AZ489FT4845				

Transmitter	VHF	UHF 1	UHF 2		
RF output Li-lon @ 7.5V:	Low 1W Low 1W High 5W High 4W				
Frequency:	136-174 MHz	403-470 MHz	450-512 MHz		
Channel spacing:	12.5 / 20 / 25 kHz				
Frequency stability: (-30°C to +60°C)	0.00025%				
Spurs/harmonics:	-36 dBm < 1GHz -30 dBm > 1GHz				
Audio response: (from 6 dB/oct. Pre-emphasis, 300 to 3000Hz)	+1, -3 dB				
Audio distortion: @ 1000 Hz, 60% rated max. dev.	<5%				
FM noise:	-40 dB				

Receiver	VHF		UHF 1		UHF 2		
	12.5 kHz	20/25 kHz	12.5 kHz	20/25 kHz	12.5 kHz	20/25 kHz	
Frequency:	136-174 MHz 403-470 MHz			450-512 MHz			
Sensitivity 12dB EIA SINAD:	0.35 uV						
Adjacent channel selectivity ETS	-60 dB	-70 dB	-60 dB	-70 dB	-60 dB	-70 dB	
Intermodulation ETS	-65 dB						
Frequency stability: (-30°C to +60°C)	0.00025%						
Spur rejection:	-70 dB						
Image rejection:	-70 dB						
Audio output: @ <5% distortion	500 mW						

All specifications are subject to change without notice.

EX500, EX560 $\,^{\circ}$ XLS and EX600 $\,^{\circ}$ XLS radio models are FM approved as intrinsically safe for use in Division 1, Class I, II, III, Group C,D,E,F,and G. Division 2, Class I, Groups A,B,C,D when ordered with the FM option and battery.



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