

# **FX™** Series EX560•XLS™ Professional Submersible Two-Way Portable Radio

#### Signaling

accessory.

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

#### X-Pand<sup>™</sup> voice compression and low level expansion Crisp, clear and strong audio quality in virtually any

Hands-free operation when used with VOX headset

The radio output power has two settings - low power

extends battery life and high power allows the radio to

interference. A tight squelch gives clearer playback of

messages, while a normal squelch increases coverage.

Each EX560•XLS radio is fitted as standard with a high-

batteries offer increased operating times and extended

service life when compared to NiCd or NiMH batteries.

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

capacity Lithium Ion battery. Providing for longer battery life

and having no memory or 'over-charge' side effects, Li-Ion

Enhances audio clarity by filtering out unwanted

Enhanced Li-Ion battery performance

heard during pauses in conversation.

Voice Operated Transmit (VOX)

transmit over a greater distance.

Adjustable power levels

Tight / normal squelch

Emergency signaling

people.

Designed to operate on LTR® trunking systems, the noisy environment. Low level expansion allows further EX560•XLS can enhance your communication by providing improvements in audio quality by reducing noise usually a wider calling range, faster channel access, greater privacy, and higher user and talkgroup capacity.

Trunking capability

requirements in any situation.

#### 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.

Programmable channel spacing (12.5/20/25 KHz)

Flexible and easy migration of channel spacing

#### Whisper

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

#### 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

- MIL-STD-810-C, D, E & F
- for up to 30 minutes

designed Push-to-Talk button that provides easy

#### Crisp, clear audio

low level expansion allows further improvements in audio quality by reducing noise usually heard during pauses in conversation. And the emergency signaling feature can be configured to send a help signal to



General Specifications								
	VHF	UHF 1	UHF 2					
requency:	136-174 MHz	403-470 MHz	450-527 MHz					
Channel capacity:	EX500: 16 Channels; EX600: 128 Channels; EX560•XLS, EX600•XLS: 160 Channels							
Power supply:	7.5 Volts +/- 20%							
Dimensions:	Plain Radio							
Nith standard high capacity lithium battery: Nith ultra high capacity lithium battery: EX560•XLS with IP67 Li-Ion battery:	101.5mm x 55.5mm x 101.5mm x 55.5mm x -	35.5mm 101	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: Jltra 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®EX560•XLS IEC 60529 IPX7®EX560•XLS; IEC 60529 IPX4®EX500, EX600, EX600•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							
/ibration:	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•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:	MIL-STD-810D metho MIL-STD-810E metho	Meets MIL-STD-810-C, D, E & F MIL-STD-810C method 5071 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						
FCC Description:	AZ489FT3801	AZ489FT4844	AZ489FT4845					

Transmitter	VHF	UHF 1	UHF 2	Receiver	VHF			UHF 1		UHF 2	
RF output Li-Ion @ 7.5V:	Low 1W Low 1W High 5W High 4W			12.5 kHz	20/25 kHz	12.5 kHz	20/25 kHz	12.5 kHz	20/25 kHz		
Frequency:	136-174	403-470	450-512	Frequency:	136-174 MHz 403-470 MHz 450-5					12 MHz	
Channel spacing:	MHz MHz MHz   12.5 / 20 / 25 kHz			Sensitivity 12dB EIA SINAD:	0.35 uV						
Frequency stability: (-30°C to +60°C)	0.00025%			Adjacent channel selectivity ETS	-60 dB	-70 dB	-60 dB	-70 dB	-60 dB	-70 dB	
Spurs/harmonics:	-36 dBm < 1GHz		Intermodulation ETS	-65 dB							
Audio response: (from 6	-30 dBm > 1GHz +1, -3 dB		Frequency stability: (-30°C to +60°C)	0.00025%							
dB/oct. Pre-emphasis, 300 to 3000Hz)			Spur rejection:	-70 dB							
Audio distortion:				Image rejection:	-70 dB						
@ 1000 Hz, 60% rated max. dev.	ed max. <5%		Audio output: @ <5% distortion	500 mW							
FM noise:		-40 dB									

All specifications are subject to change without notice.

EX500, EX560•XLS and EX600•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.





MOTOROLA SOLUTIONS PLATINUM CHANNEL PARTNER Manufacturers Representative Professional & Commercial Radio Elite Specialist P25 Systems



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