

# MOTOROLA EX600•XLS™

Portable  
Two-Way Radio

## EXPERT SERIES

### Programmable Emergency Button

Dedicated button that sounds alarm or alerts dispatcher in urgent situations

### 160 Conventional Channels or 15 Trunked Zones with 16 Talkgroups each

### 14-Character Alphanumeric Display

User-friendly icons provide clear, easy-to-read indicators, including:

- **Zone, Talkgroup, and Channel Indicator**  
Identifies alias for trunked zone, talkgroup, and conventional channels
- **Battery Gauge**  
Indicates battery strength levels for more effective power management
- **Radio Signal Strength Indicator (RSSI)**  
Displays radio's signal and strength levels at a glance

### 6 Programmable Buttons

Immediate access to your favorite features

- **Adjustable Power Levels**  
Help optimize coverage and battery life
- **Dual Priority Channel Scan**  
Program radio to frequently scan transmissions on your two most important channels, to help ensure you don't miss critical calls
- **Monitor/Permanent Monitor**  
Quickly and easily monitor a specific channel
- **Repeater Talkaround**  
Unit-to-unit communication allows radio to bypass the repeater when necessary, to help ensure continuous radio contact
- **Home Channel Revert**  
Automatically access a preferred channel

### Control Buttons

Easily manage menu, navigation, and exit functions

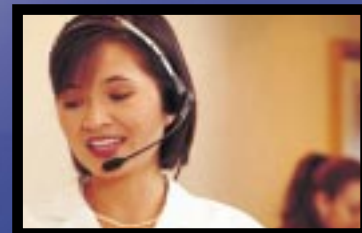
### Telephone Interconnect Capability

Place and receive phone calls with the radio

### Quick Call II™ and MDC1200 Signaling

Send and receive information in a variety of ways, including:

- **Push-to-Talk ID (Encode/Decode)**  
Identify your outgoing calls and incoming callers
- **Selective Call (Encode/Decode)**  
Send and receive a call from a specific group or individual
- **Call Alert (Encode/Decode)**  
Inform unavailable users that you're trying to reach them, and receive alerts of incoming calls when you're a short distance away from your radio
- **Radio Check (Encode/Decode)**  
Learn whether another user's radio is activated, and let others check your radio status
- **Emergency (Encode)**  
Sounds an alarm or alerts dispatcher in urgent situations
- **Selective Radio Inhibit (Decode)**  
Allows system owner to disable stolen or missing radios



## Performance and Prestige

Power and versatility are yours with the advanced Motorola EX600•XLS radio. At just 9.5 ounces, this full-keypad portable radio is remarkably compact and lightweight—perfect for professionals on the go. This Expert Series radio has many outstanding features that are designed to meet virtually every communication need. Six programmable buttons allow you to customize your radio's operations to suit your requirements. A full range of signaling capabilities lets you control transmissions with extraordinary precision and dual mode operation capability allows users to switch between LTR® and conventional modes at a touch of a button. User-friendly icons on the large 14-character alphanumeric display provide clear, understandable information at a glance. The Motorola EX600•XLS radio offers the superior communication capabilities you need to keep productivity and efficiency at their highest.



**MOTOROLA**  
*intelligence everywhere™*

# MOTOROLA EX600•XLS

## EXPERT SERIES

### Specifications

Putting Sophisticated  
Communication  
in the Palm of Your Hand

## GENERAL

SPECIFICATION	VHF	UHF
Channel Capacity	Trunking zone capacity: 15 Trunking talkgroup capacity: 16 Conventional channel capacity: 160	
Dimensions (with Li-Ion Battery)	4.61" x 1.58" x 2.48" 117mm x 40.1mm x 63mm	
Weight (with Li-Ion Battery)	9.5 ounces/270 grams	
Power Supply	Rechargeable battery 7.5V	
Average Battery Life @ 5/5/90 Duty Cycle with High Capacity Li-Ion Battery	Low Power 14 hrs	High Power 10 hrs
with Slim Li-Ion Battery	10 hrs	7 hrs
Model Numbers	AAH38KDH9DU6_N	403-470MHz AAH38RDH9DU6_N 450-512MHz AAH38SDH9DU6_N

## TRANSMITTER

SPECIFICATION	VHF/UHF
Frequencies	136-174 MHz 403-470 MHz 450-512 MHz
Channel Spacing	12.5 kHz/20/25 kHz
Freq. Stability (-30° C to 60° C, +25° Ref.)	±2.5 ppm @12.5 kHz ±4 ppm @20/25 kHz
Power	1 W, 5 W, 136-174 MHz 1 W, 4 W, 403-470 MHz 1 W, 4 W, 450-512 MHz
Modulation Limiting	±2.5 KHz @12.5 kHz ±4 KHz @20 kHz ±5 KHz @25 kHz
FM Hum & Noise	-34 dB @12.5 kHz -40 dB @20/25 kHz
Conducted/Radiated Emission	-36 dBm < 1 GHz -30 dBm > 1 GHz
Adjacent Channel Power	-60 dBc @12.5 kHz -70 dBc @20/25 kHz
Audio Response (300 - 3000 Hz)	+1 to -3dB of a 6 dB/octave pre-emphasis
Audio Distortion	3%

For more information, please contact:

## RECEIVER

SPECIFICATION	VHF/UHF
Frequencies	136-174 MHz 403-470 MHz 450-512 MHz
Channel Spacing	12.5/20/25 kHz
Freq. Stability (-30° C to 60° C, +25° Ref.)	±2.5 ppm @12.5 kHz ±4 ppm @20/25 kHz
Sensitivity (12 dB SINAD)	0.35 µV
Intermodulation	70 dB
Adjacent Channel Selectivity	60 dB @ 12.5 kHz 70 dB @ 20/25 kHz
Spurious Rejection	70 dB
Rated Audio	0.5 W
Audio Distortion @ Rated Audio	3% typical
Hum and Noise	-34 dB @12.5 kHz -40 dB @20/25 kHz
Conducted Spurious Emission	-57 dBm < 1 GHz -47 dBm > 1 GHz

NOTE: All RX Hum and Noise numbers assume a low level expander is used.

## PORTABLE MILITARY STANDARDS 810 C, D & E

	810C		810D		810E	
Applicable	Methods	Procedures	Methods	Procedures	Methods	Procedures
Low Pressure	500.1	1	500.2	2	500.3	2
High Temp	501.1	1,2	501.2	1,2	501.3	1,2
Low Temp	502.1	2	502.2	1,2	502.3	1,2
Temp. Shock	503.1	1	503.2	1	503.3	1
Solar Radiation	505.1	1	505.2	1	505.3	1
Rain	506.1	1,2	506.2	1,2	506.3	1,2
Humidity	507.1	2	507.2	2,3	507.3	2,3
Salt Fog	509.1	1	509.2	1	509.3	1
Dust	510.1	1	510.2	1	510.3	1
Shock	516.2	1,2,5	516.3	1,4	516.4	1,4
Vibration	514.2	8,10	514.3	1	514.4	1

## ENVIRONMENTAL

PARAMETER	SPECIFICATION
Operating Temperature Radio only	-30 to 60° C
Storage Temperature	-55 to 85° C
Thermal Shock	-40 to 80° C
Humidity	95% RH @ 8 Hr.
Sand Dust	Blowing Dust: 5 Hr. Non-operating IP54
Vibration	SINE 10-60Hz 30 min/axis
Drop Test	42 drops from 48" height 42 drops from 121.9cm height
Flame Resistance	UL94 HB
ESD	IEC 801-2 KV
Water Intrusion	IP54
Packing Test	5 feet

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