

maxon[®]

Enduro™ SM-6000 Series

VHF / UHF LTR & Conventional mobiles

LTR[®]/Conventional Flexibility

These versatile wideband VHF and UHF mobiles are one of the smallest available - delivering 40 Watts output power, multiple scan modes and operation in LTR trunked or conventional formats.

No matter what or where the work may be, the SM-6150 and SM-6450 Enduro mobiles are always up for the job.

200 System capability

UHF: 32 Groups per System (LTR trunked)

16 Channels per System (conventional)

VHF: 25 Groups per System (LTR trunked)

14 Channels per System (conventional)

40 Watts Transmit power

Programmable for 5 or 40 Watts by channel, for optimum communication range from any location

CTCSS / DCS Tone signaling

Tones allow reception of calls from user group, and prevent unwanted calls

Data ready

Dedicated data-only channel operation plus 15-pin connector for mobile data terminals, telemetry and SCADA applications

2-Tone Decoder

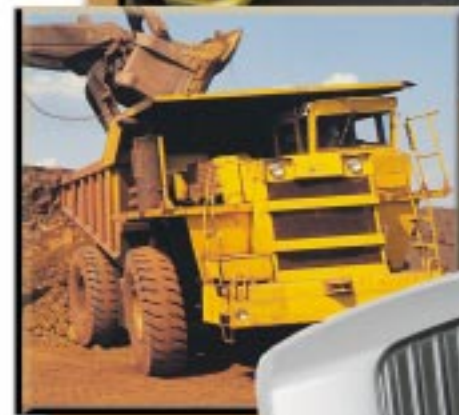
Calls a specific group or individual - compatible with Motorola™, GE™, Reach™ and Plectron™

Flash programming

Allows for easy upgrades of radio firmware

Repeater-ready

Pair two mobiles together to create a single user repeater with Station ID



Enduro[™]
by maxon

The SM-6000 mobiles are the premier radios in the tough-tested Maxon Enduro™ product line.

Enduro SM-6150 / SM-6450



specifications

general	VHF model SM-6150	UHF model SM-6450
Frequency Range	148-174 MHz	450-480 MHz
Systems	200	200
Groups - LTR	25 per system	32 per system
Channels - Conventional	14 per system	16 per system
Channel Spacing	30 / 25 / 15 / 12.5 kHz	
PLL Step	5.0 / 6.25 / 7.5 kHz	5.0 / 6.25 kHz
Channel Spread	26 MHz	30 MHz
Antenna Impedance	50 Ω	50 Ω
Input Voltage	13.8V DC ± 20%	13.8V DC ± 20%
Current Drain		
Standby	<.15 A	<.15 A
Receive	<.5 A	<.5 A
Transmit	<10 A	<10 A
Operating Temperature	-22° F to +140° F (-30° C to +60° C)	
Frequency Stability (-30° C to +60° C)	± 2.5 ppm	± 2.5 ppm
Dimensions (W x H x D)	6-5/16" x 1-3/4" x 6" (160 x 44 x 152 mm)	
Weight	2 lb., 8 oz. (1300 gm)	
FCC Identifier	F3JSM6150V2	F3JSM6450U6
FCC Compliance	Parts 22, 74, 90	Parts 22, 74, 80, 90, 95
Canada Certification Number	3772195714A	153 195 653A

receiver (measurement procedures made per ANSI/TIA / EIA - 603)

Sensitivity	12 dB SINAD	.25 μV @ 12.5 kHz; .25 μV @ 25 kHz
Selectivity		62 dB @ 12.5 kHz; 72 dB @ 25 kHz
Intermodulation		72 dB @ 12.5 kHz; 72 dB @ 25 kHz
Spurious Response		75 dB 75 dB
Audio Output		4W (Int.) @ 16 Ω; 10W (Ext.) @ 8 Ω (Method @ 5% THD level)

transmitter (measurement procedures made per ANSI/TIA / EIA - 603)

RF Output		
148-174 MHz		5 or 40 Watt (prog. by channel)
450-470 MHz		5 or 40 Watt (prog. by channel)
471-480 MHz		5 or 35 Watt (prog. by channel)
Spurious and Harmonic Emissions	75 dB	75 dB
Modulation	16K0F3E, 11K0F3E	
FM Hum and Noise	36 dB @ 12.5 kHz; 42 dB @ 25 kHz	
Audio Distortion	2% (Int.); <10% (Ext.)	

Specifications are subject to change without notice.

LTR, Motorola, GE, Reach and Plectron are registered tradenames and the property of their respective licensees.

features / functions

- Up to 200 Systems
- UHF 32 Groups per System - LTR;
- 16 Channels per System - Conventional
- VHF: 25 Groups per System - LTR;
- 14 Channels per System - Conventional
- 5 or 40 Watts Transmit power (prog. per channel)
- CTCSS/DCS Tone signaling
- 2-Tone decode (conventional)
- Programmable repeater configuration
- Dedicated data-only channel operation
- Flash programming through front microphone jack
- Per-System Automatic Number Identification (ANI)
- Multiple scan functions, including manual Group, auto group in LTR trunked operation; Group, priority TX, priority only TX, priority lookback, and talk-back in conventional
- Public Address mode
- Talk-around mode
- Programmable home System / Group
- Programmable channel spacing (25 / 12.5 kHz)
- Busy System queuing
- 9-Character, backlit LCD with icons
- Backlit function control buttons
- Time-out-timer
- Programmable volume settings
- External speaker jack
- Die-cast aluminum chassis, polycarbonate faceplate
- Manufactured under ISO 9002 quality standards
- FCC Certified for use in U.S.A. and its possessions and Canada Approved for sale / use in Canada



accessories / options

Audio: Heavy duty remote speaker (AA-1470A); Heavy duty mobile microphone (ACC-700); Heavy duty DTMF mobile microphone (ACC-703); Base station microphone (ACC-702)

Power Supply: 110V / 220V AC, 10 Amp, 50% duty (MS-0730)

Options: Remote Head Kit with 10' or 20' cable (RH-6010, RH-6020); High Power Amplifiers (HPK-VHF for the SM-6150, HPK-UHF for the SM-6450); Base station shroud (ACC-450)

data connector pin-out



For more information, contact:



Supplier of Maxon®, Legacy, ComStar and TruTalk products

10828 NW Air World Drive
Kansas City, Missouri 64153
800-821-7848, Ext. 699 • Fax: 816/891-8815
www.topaz3.com

MIL-STD methods / procedures

The Maxon SM-6150 and SM-6450 are approved to the following:

Standard	810F Method / Procedure
Blowing Dust	510.4 / Proc. I
Vibration	514.5 / Proc. I
Shock	516.5 / Proc. I