



ENDURO™ SM 6000 SERIES

MOBILE RADIOS

UHF / VHF LTR® & CONVENTIONAL OPERATION



FEATURES

SM-6150 VHF (148-174 MHz)
SM-6450 UHF (450-480 MHz)

- **200 Systems Capacity**

- *LTR® Operation*

- UHF: 32 Groups per system

- VHF: 25 Groups per system

- *Conventional Operation*

- UHF: 16 Groups per system

- VHF: 14 Groups per system

- **40 Watts RF Output**

- 5 or 40 watts programmable by channel

- **Data Connection**

- Allows the use of data connections such as, SCADA, telemetry, mobile data terminals and more

- **Flash Programming**

- Easily upgrades the radio firmware

- **Multiple SCAN Modes**

- Personalize the radio to meet your requirements with multiple scan modes at your disposal

Specifications

General	VHF Model SM-6151	UHF Model SM-6450
Frequency Range	148-174 MHz	450-480 MHz
Systems	200	
LTR® Groups	25 per system	32 per system
Channels	14 per system	16 per system
Channel Spacing	30 / 25 / 15 / 12.5 kHz	
PLL Step	5.0 / 6 / 7.25 kHz	5.0 / 6.25 kHz
Channel Spread	26 MHz	30 MHz
Antenna Impedance	50Ω	
Input Voltage	13.8 V DC ± 20%	
Current Drain		
Standby	< .15 A	
Receive	< .5 A	
Transmit	< 10 A	
Operating Temperature	-22° F to +140° F (-30° C to +60° C)	
Frequency Stability	± 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 (with microphone)	2 lb., 8 oz. (1300 gm)	
FCC Identifier	F3JSM6150V2	F3JSM6450U6
FCC Compliance	Parts 22,74, 90	Parts 22,74, 80, 90, 95

Specifications

Transmitter	VHF Model SM-6150	UHF Model SM-6450
RF Output	5 or 40 Watts programmable by channel	
148-174 MHz	5 or 40 Watts programmable by channel	
450-470 MHz	5 or 40 Watts programmable by channel	
471-480 MHz	5 or 35 Watts programmable by channel	
Spurious and Harmonic Emissions	75 dB	
Modulation	16K0F3E, 11K0F3E	
FM Hum and Noise	36 dB @ 12.5 kHz	42 dB @ 25 kHz
Audio Distortion	2% (Int.) < 10% (Ext.)	
Receiver	VHF Model SM-6150	UHF Model SM-6450
Sensitivity 12 dB SINAD	25 μ V @ 12.5 KHz	
Selectivity	62 dB @ 12.5 kHz	72 dB @ 25 kHz
Intermodulation	72 dB @ 12.5 kHz	
Spurious Response	75 dB	
Audio Output	4 Watt (Int.) @ 16 Ω – 10 Watt (Ext.) @ 8 Ω (Method @ 55 THD level)	

Measurement procedures made per ANSI/TIA/EIA-603
Specifications are subject to change without notice