

# maxon®

## Enduro™ SM2500 Series

### VHF / UHF scanning mobiles

# "No hassle" mobile communications

Maxon's SM2500 Series Enduro mobiles deliver Conventional two-way operation, 25 Watts output power, and a high density data connector for versatile audio and data applications.

These UHF and VHF mobiles are compact, yet rugged enough to handle a full day's work - wherever the job takes you.

#### 4 Channel operation

#### 25 Watts Transmit power

Programmable for 1 or 25 Watts by channel, for optimum communication range from any location

#### CTCSS / DCS Tone signaling

Tones prevent reception of unwanted calls and increase call privacy

#### Data connector

Provides easy access for audio and data applications such as mobile data terminals, telemetry and SCADA applications

#### Easy programming

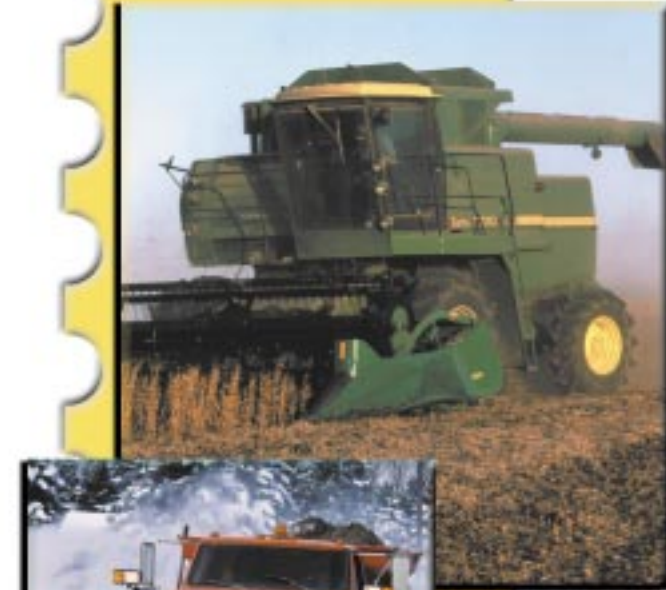
For convenience, radio personality is programmed through the microphone jack

#### Multiple scan modes

Channel scan, priority scan and priority scan with look back function



The SM2500 mobiles are designed to durable military standards and tough-tested for dependable performance.



# Enduro SM2541 / SM2544



## specifications

general	VHF model SM2541	UHF model SM2544	receiver (measurement procedures made per ANSI/TIA / EIA - 603)	
Frequency Range	148-174 MHz	440-470 MHz	Sensitivity	12 dB SINAD
Channels	4	4		.28 $\mu$ V
Channel Spacing	25 / 12.5 kHz	25 / 12.5 kHz	Selectivity	.35 $\mu$ V
PLL Step	5.0 / 6.25 kHz	5.0 / 6.25 kHz		62 dB @ 12.5 kHz;
Channel Spread	26 MHz	30 MHz		70 dB @ 25 kHz
Antenna Impedance	50 $\Omega$	50 $\Omega$	Intermodulation	65 dB @ 12.5 kHz; 65 dB @ 25 kHz
Input Voltage	13.8V DC	13.8V DC	Spurious Response	70 dB
Current Drain			Audio Output	4W
Standby	.15 A	.15 A	<b>transmitter (measurement procedures made per ANSI/TIA / EIA - 603)</b>	
Receive	.1 A	.1 A	RF Output	1 Watt, low; 25 Watts, high
Transmit	8 A	8 A	Spurious and Harmonic Emissions	70 dB
Operating Temperature	-22° F to +140° F (-30° C to +60° C)		Modulation	16K0F3E, 11K0F3E
Frequency Stability (-30° C to +60° C)	+/- 0.0005%	+/- 0.0005%	FM Hum and Noise	40 dB @ 12.5 kHz; 40 dB @ 25 kHz
Dimensions (W x H x D)	7" x 2" x 6.25" (178 x 44 x 152 mm)		Audio Distortion	<5% at 1kHz
Weight (with microphone)	3 lb., 6 oz. (1.5 km)		Specifications are subject to change without notice.	
FCC Identifier	F3JSM2150	F3JSM2450	<b>accessories / options</b>	
FCC Compliance	Parts 15, 20, 22, 74, 80, 90, 90.210	Parts 15, 22, 74, 80, 90, 90.210	<b>Audio:</b> Heavy duty remote speaker (AA-1470A); Heavy duty mobile microphone (ACC-700); Base station microphone (ACC-702)	
IC Certification Number	153 195 173A	153 194 331A	<b>Power Supply:</b> Base station power supply 110V / 220V AC, 10 Amp, 50% duty (MS-0730); Base station shroud (MS-4730)	

## features / functions

- 4 Channel, 25 Watt VHF model SM2541; UHF model SM2544
- Programmable wide or narrow channel spacing and per-channel low / high power (1 or 25 Watts)
- PC Programmable, through radio's microphone jack
- Scan modes include channel scan, priority scan and priority scan with look back
- CTCSS/DCS tone signaling blocks unwanted calls
- 15-Pin data connector
- Busy channel lockout
- Time-out timer
- 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

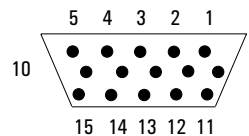
## MIL-STD methods / procedures

The Maxon SM2541 and SM2544 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



## data connector pin-out



- |                    |                    |
|--------------------|--------------------|
| 1 - AUDIO OUT      | 9 - CALL LED       |
| 2 - TX TONES       | 10 - MIC CONTROL   |
| 3 - BUSY / SQUELCH | 11 - AUDIO MUTE    |
| 4 - CALL           | 12 - TX ENABLE     |
| 5 - MONITOR        | 13 - GROUND        |
| 6 - PTT IN         | 14 - 8V            |
| 7 - RX AUDIO IN    | 15 - NO CONNECTION |
| 8 - ALERT TONE OUT |                    |

For more information, contact:



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