

#### 137-162 MHZ | 150-174 MHZ | 450-470 MHZ



### **Robust Communications in a Compact Package**

JSLM2 telemetry radios offer the third generation design of a proven RF platform radio in a compact package that delivers wireless analog communications. This feature-rich radio is compliant with the United States FCC refarming requirements for half-channel operation and comes packaged in the same form-factor as its predecessors.

The JSLM2 is backward compatible for easy installation in established systems. The new feature set will enhance future system designs. The JSLM2 is PC-programmable offering user-selectable RF power output, modulation sensitivity, baseband output levels, and a choice of several filter options. The innovative heat transfer design allows a longer transmit time for improved duty cycles. Automatic power foldback provides protection from overheating at temperature extremes.

## Experience The Advantage

0.5-5 watt power output

onmeno

- Digital tuning for audio in/out
- Meets FCC refarming standards
- Compact 7.2 cubic inch, rugged steel case
- Low group delay
- Fast attack synthesizer
- Minimal key up/down sideband noise
- DIN-rail mount option available

# **JSLM2** Specifications

#### General

**Frequency Range Channel Bandwidth Emission Designators** Certifications

137-162 MHz, 150-174 MHz, 450-470 MHz 2.5 kHz (VHF), 6.25 kHz (UHF) 11KOF3E FCC, IC

#### Receiver

-116 dBm (psophometrically weighted)
<3 ms
40 ms (cold start)
60 dB
-70 dB
-70 dB
40 dB
-57 dBm
<3%
6 dB De-emphasis or Flat, AC Coupled
50 mV to 212 mV rms into 2k Q (adjustable)
50 mV to 400 mV rms into 600 Q Flat (adjustable)

#### Transmitter

Frequency Stability	1.0 ppm (UHF), 2.0 ppm (VHF)
Carrier Output Power	Adjustable 0.50-5 Watts
Duty Cycle	50% @ 25°C (30 sec max transmit)
Rx to Tx Attack time	<12 ms from PTT
Spurious & Harmonic FM	-20 dBm
FM Hum and Noise	-40 dB
Modulation Distortion	<3%
Audio Input	6 dB Pre-emphasis or Flat (data aux)
Audio Input Level	30 mV rms for 1.5 kHz Deviation, Pre-emphasis Only
	(microphone)
Data (Aux) Input Level	10 mV to 80 mV rms for 60% Rated Deviation Flat AC
	Coupled (adjustable)

#### Electrical

Tx Current	1100 mA Max @ 7.2 VDC, 1600 mA Max @ 12.5 VDC
Rx Current	<100 mA
Primary Power	6-15 VDC (7.2 or 12.5 VDC nominal)

#### Mechanical/Environmental

Dimensions
Weight
<b>Operating Temperature</b>

2.34 W x 1.00 H x 3.08 in D, (5.9 x 2.5 x 7.8 cm) 8 oz, (227 g) -30° to +60° C

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#### Interfaces

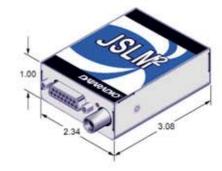
Serial	DA-15 (15-pin D)
Antenna	BNC Female (Tx/Rx)

#### **Interface Information**

#### Signal Pin

- Channel Select 0 (SCO) 1
- 2 Channel Select 1 (SC1)
- Channel Select 2 (SC2) 3
- 4 Tx Microphone Input (Mic In)
- **RNet Compatibility Channel Select** 5
- 6 Raw Battery Supply (B+)
- 7 Tx Auxiliary Data Input (Aux In)
- 8 Rx Auxiliary Data Output (Aux Out)
- Program Data I/O from PC (PGM IN OUT) 9
- 10 Ready to Send (RS)
- Squelch Disable or RSSI Analog Out (programmable) 11
- Rx Audio Out (Audio Out) 12
- 13 Carrier Detect (DCD)
- 14 Push to Talk (PTT RTS)
- 15 Ground

#### **Mechanical Layout**



The JSLM2 is not a RoHS compliant product.

CalAmp's industrial wireless solutions combine utility-class performance and the proven reliability needed for mission critical communications. Our ruggedized line of licensed, unlicensed, and cellular devices provide narrowband, wideband and broadband data connectivity for fixed and mobile applications.

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