

# The *OmniLynx* *OmniFM*

## Dual Agile Stereo Multiplexer/FM modulator

The **OmniFM** offers high quality stereo multiplexing and modulation in a compact, low cost package. Replacing up to four separate units (mono) or two separate units (stereo), the dual OmniFM saves space, interconnections and cost. Included are two completely independent channels, each composed of a full-featured stereo multiplexer and an agile FM modulator. An RF summer is integrated so that both channels are available at a single output connector.



### MAIN FEATURES

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- Fully agile over 88-108 MHz band
  - 100 kHz step size, DIP switch settable
  - Deviation and RF level controls front panel adjustable
  - Selectable 50/75  $\mu$ s pre-emphasis
  - Selectable 100/300 mV audio input levels
  - Stereo and mono operation
  - Low cost
  - Space efficient. 8 units (16 channels) require only 4U (7" height)
  - Carrier deviation indicators
  - Excellent spurious performance
  - Single summed RF output
  - Meets BP23 requirements
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## OmniLynx OmniFM Dual Agile Stereo Multiplexer/FM Modulator

### RF OUTPUT

Output	Single RF output, channels combined
Frequency Range	88.1 to 107.9 MHz
Frequency Step Size	100 kHz
Output Level	+40 dBmV per carrier
Level Adjustment Range	> 10 dB, front panel
Spurious (7 MHz to 1 GHz)	-60 dBc max. @ +40 dBmV
Hum and Noise	-60 dBc max. @ +40 dBmV
Frequency Accuracy:	
Calibration at 25°C	±500 Hz max.
Stability 10 to 40°C	±4 kHz max.

### AUDIO INPUTS

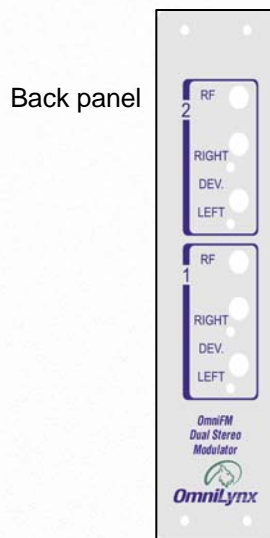
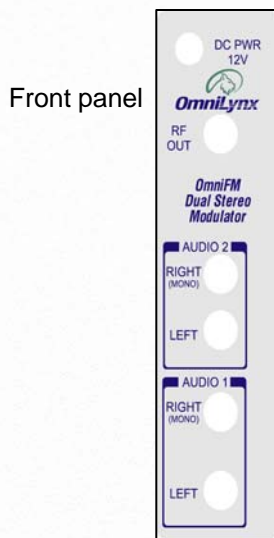
Impedance	5 kOhm
Level for ±75 kHz	300 mV/100 mV RMS, internally selectable front panel adjustable
Pre-emphasis	50/75 ms, selectable
Frequency Response	±1 dB of pre-emphasis curve
Distortion	1% max. at 75 kHz peak
Separation	33 dB min. at 1 kHz
Subcarrier	19 kHz ±2 Hz

### CONTROLS AND INDICATORS

Channel Selection	Synthesized, DIP switch selectable
Overmodulation	LED indicators
Stereo/Mono Operation	Internally selectable

### GENERAL

DC Power Input	+11.5 to +14 VDC, 400 mA
Dimensions	5.5" x 1.5" x 11.5" (14.0 x 3.8 x 29.2 cm)
Mounting	
Vertical Rack Mounting (preferred)	8 Units in 4U (7" height)
Horizontal Rack Mounting	Up to 3 units in 1U (1.75" height)
Weight	3 lb. (1.4 Kg)
Operating Temperature	10 to 40°C (50 to 104°F)



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