

## ECT5080-L 8 CHANNEL AUDIO/24BIT DIGITAL OPTICAL LINK WITH UP TO 130 km/80 mi RANGE



Audio
8
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The ECT5080-L system provides a high performance link for transmitting up to eight mono or four Hi-Fi stereo analog audio signals over a single fiber optic cable per single wavelength. The system features broadcast quality providing 24-bit audio processing with uncompressed digital transmission.

ECT5080-L utilizes high speed analog-to-digital and digital-to-analog conversion with 24-bit resolution, digital signal processing, time division multiplexing/demultiplexing, fibre optic transmission at a data rate of up to 400 Mbit/sec.

### FEATURES

- ❑ Eight Mono or Four Stereo Audio Channels, 24 bit Digital Processing
- ❑ Unidirectional & Bi-directional Transmission
- ❑ Operating Range Up to 130 km / 80 miles
- ❑ Standalone modular and rack card styles
- ❑ Multifunction Power and Signal Status Indicators

Fiber Type	Singlemode
Optical Core Diameter	8/10μ
Operating Wavelength	1550 nm or 1530 & 1570 nm
Optical Power Source	DFB Laser
Optical Power Output	0 (+/- 0.5) dBm
Receiver Sensitivity	-42 dBm
Optical Connectors	FC, SC, ST

Audio Bandwidth @ 1 dB	20 Hz – 20 kHz
Audio Input	600 Ohm or 10K, balanced/unbalanced
Audio Output	Balanced or Unbalanced
Audio In/Out Level (max)	+18 dBm/balanced or +12 dBm/unbalanced
Audio THD	< 0.1%
Audio S/N Ratio (weighted)	> 80 dB
Power Requirements:	
Transmitter	11 - 15 VDC @ 0.35 A
Receiver	11 - 15 VDC @ 0.5 A
Transceiver	11 - 15 VDC @ 0.85 A
Operating Temperature	-30°C to +70°C (-22°F to +158°F)
Dimensions:	
Transmitter or Receiver	11.6"(295 mm) x 5.2"(132 mm) x 1"(26 mm)
Transceiver	11.6"(295 mm) x 5.2"(133 mm) x 2"(51 mm)



## ORDERING INFORMATION

5080S-AT-**X1Z**-L – 8 ch. audio transmitter, single mode 1550 nm, 1 fiber  
5080S-AR-**X1Z**-L – 8 ch. audio receiver, single mode 1200 – 1620 nm, 1 fiber

5080S-AX-**X2Z**-L – 8 ch. audio transceiver, single mode 1550 nm/TX, 2 fiber  
5080S(15.3)-AX-**X1Z**-L – 8 ch. audio transceiver, single mode 1530 nm/TX & 1570 nm/RX, 1 fiber  
5080S(15.7)-AX-**X1Z**-L – 8 ch. audio transceiver, single mode 1570 nm/TX & 1530 nm/RX, 1 fiber

**X** = **C** for card style\*  
= **M** for module style

**Z** = **FC, SC, ST** for optical connectors

*\*compatible with USR series chassis;*

