

# ECT5000 SERIES

## ECT50168-L 16 CHANNEL AUDIO/24BIT AND 8 CHANNEL DATA DIGITAL OPTICAL LINK WITH UP TO 130 km/80 mi RANGE



Audio	Data
16 →	8 →

The ECT50168-L system provides a high performance link for transmitting up to eight unidirectional Hi-Fi stereo or sixteen mono audio channels and eight multiformat data channels over a dual or single fiber optic cable. The system features broadcast quality providing 24-bit audio processing with uncompressed digital transmission.

The ECT50168-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 1.4 Gbit/sec and high speed data transfer capability.

### FEATURES

- ❑ Sixteen Mono or Eight Stereo Audio Channels, 24 bit Digital Processing
- ❑ Eight RS-232, RS-422, TTL/CMOS, Cont. Closure Data Channels
- ❑ 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 or 1530 & 1570 nm
Optical Power Source	DFB or CWDM 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
Supported Data Formats	RS-232, RS-422, TTL/CMOS, Cont. Closure
Data Rate	Up to 1.6 Mb/sec*
Bit Error Rate	10 <sup>-9</sup>
Power Requirements	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 2.0"(51 mm)

\* higher data rate (up to 8 Mb/sec) is available per special request.



Elcommtech Corp. 2620 Ocean Parkway, Suite 4H, Brooklyn, NY 11235  
 Tel (718) 743-2869 • Fax (718)648-3642 • E-mail [sales@elcommtech.com](mailto:sales@elcommtech.com)  
<http://www.elcommtech.com>

## ORDERING INFORMATION

50168S-ADTU-**X2Z**-L – 16 ch. audio & 8 ch. data transmitter 1550 nm, 2 fiber  
50168S-ADRU-**X2Z**-L – 16 ch. audio & 8 ch. data receiver 1200 – 1620 nm, 2 fiber

50168S-ADTU-**X1Z**-L – 16 ch. audio & 8 ch. data transmitter 1530 & 1570 nm, 1 fiber  
50168S-ADRU-**X1Z**-L – 16 ch. audio & 8 ch. data receiver 1530 & 1570 nm, 1 fiber

**U** = **1** for TTL, **3** for RS-232, **4** for RS-422, **9** for Cont. Closure

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

**Y** = **1, 2** for number of fiber

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

*\*compatible with USR series chassis;*

