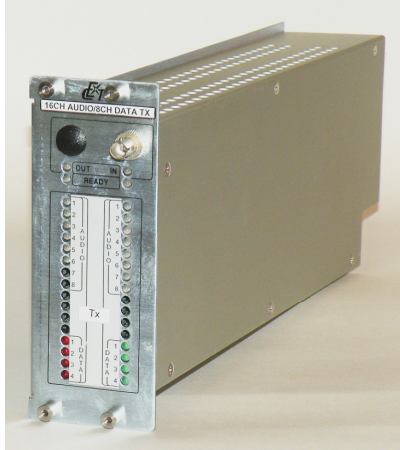


## ECT50168 16 CHANNEL AUDIO/24BIT AND 8 CHANNEL DATA DIGITAL OPTICAL LINK



Audio	Data
16	8
→	→

The ECT50168 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 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
- ❑ Multimode and Single Mode Versions
- ❑ Standalone modular and rack card styles
- ❑ Multifunction Power and Signal Status Indicators

Fiber Type	Multimode	Singlemode
<b>Optical Core Diameter</b>	<b>50µ or 62.5µ</b>	<b>8/10µ</b>
<b>Operating Wavelength:</b>		
<b>2 Fiber Configuration</b>	850 nm	1310 or 1550 nm
<b>1 Fiber Configuration</b>	850 & 1310 nm	1310 & 1550 nm
<b>Optical Power Source</b>	Laser	Laser
<b>Optical Power Output*</b>	-3 dBm @ 850 nm	-3 dBm
<b>Receiver Sensitivity</b>	-30 dBm & 850 nm	-33 dBm
<b>Receiver Sensitivity**</b>	-28 dBm & 850 nm	-31 dBm
<b>Optical Connectors</b>	ST, SC	FC, SC, ST

\* per wavelength with +/- 0.5 dBm variation;

\*\* for one fiber configuration.

<b>Audio Bandwidth @ 1 dB</b>	20 Hz – 20 kHz
<b>Audio Input</b>	600 Ohm or 10K, balanced/unbalanced
<b>Audio Output</b>	Balanced or Unbalanced
<b>Audio In/Out Level (max)</b>	+18 dBm/balanced or +12 dBm/unbalanced
<b>Audio THD</b>	< 0.1%
<b>Audio S/N Ratio (weighted)</b>	> 80 dB
<b>Supported Data Formats</b>	RS-232, RS-422, TTL/CMOS, Cont. Closure
<b>Data Rate</b>	Up to 1.6 Mb/sec*
<b>Bit Error Rate</b>	10 <sup>-9</sup>
<b>Power Requirements</b>	11 - 15 VDC @ 0.85 A
<b>Operating Temperature</b>	-30°C to +70°C (-22°F to +158°F)
<b>Dimensions:</b>	
<b>Transmitter or Receiver</b>	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.



## ORDERING INFORMATION

50168M-ADTU-X2Z – 16 ch. audio & 8 ch. data transmitter, multimode 850 nm, 2 fiber  
50168M-ADTU-X1Z – 16 ch. audio & 8 ch. data transmitter, multimode 850 & 1310 nm, 1 fiber  
50168M-ADRU-X2Z – 16 ch. audio & 8 ch. data receiver, multimode 850 nm, 2 fiber  
50168M-ADRU-X1Z – 16 ch. audio & 8 ch. data receiver, multimode 850 & 1310 nm, 1 fiber

50168S-ADTU-X2Z – 16 ch. audio & 8 ch. data transmitter, single mode 1310 nm, 2 fiber  
50168S(15)-ADTU-X2Z – 16 ch. audio & 8 ch. data transmitter, single mode 1550 nm/DFB, 2 fiber  
50168S-ADTU-X1Z – 16 ch. audio & 8 ch. data transmitter, single mode 1310 & 1550 nm, 1 fiber  
50168S-ADRU-X2Z – 16 ch. audio & 8 ch. data receiver, single mode 1200 - 1620 nm, 2 fiber  
50168S-ADRU-X1Z – 16 ch. audio & 8 ch. data receiver, single mode 1310 & 1550 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

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

*\*compatible with USR series chassis;*

