

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

* per wavelength with +/- 0.5 dBm variation;

** for one fiber configuration.

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 ⁻⁹
Power Requirements	11 - 15 VDC @ 0.85 A
Operating Temperature	-20°C to +60°C (-4°F to +140°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.



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;*

