

ECT50168 16 CHANNEL AUDIO/24BIT AND 8 CHANNEL DATA DIGITAL 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. 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.

ORDERING INFORMATION

50168F-ADTU-XYZ – audio & data transmitter (module or card)

50168F-ADRU-XYZ – audio & data receiver (module or card)

- F = M for multimode 850nm
- = S for singlemode 1310nm
- = S(15) for singlemode 1550nm
- 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, ST, SC for optical connectors

*compatible with USR series chassis;

FEATURES

- ❑ Sixteen Mono or Eight Stereo Audio Channels with 24 bit Digital Processing
- ❑ Eight simplex RS-232, RS-422, TTL/CMOS, Cont. Closure Data Channels
- ❑ Standalone modular and rack card styles
- ❑ Multifunction Power and Signal Status Indicators

Fiber Type	Multimode		Singlemode
	50µ	62.5µ	8/10µ
Optical Core Diameter	50µ	62.5µ	8/10µ
Operating Wavelength:			
Dual Fiber Configuration	850 nm		1310 or 1550 nm
Single Fiber Configuration	850 & 1310 nm		1310 & 1550 nm
Optical Power Source	Laser		Laser
Optical Power Output	- 3 dBm @ 850 nm		-3 dBm*
Receiver Sensitivity	-31 dBm & 850 nm		-34 dBm
Optical Connectors	ST, SC		FC, ST, SC

* per wavelength with +/- 1 dBm variation; higher power laser sources are available per special request.

Audio Bandwidth	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)	< 85 dB
Supported Data Formats:	
Simplex or Duplex	RS-232, RS-422, TTL/CMOS, Cont. Closure
Data Rate	Up to 1.6 Mb/sec*
Bit Error Rate	10 ⁻⁹
Power Requirements	12 V DC @ 0.8 A
Operating Temperature	-30°C to +70°C (-22°F to +158°F)
Dimensions:	
Transmitter or Receiver	11.6"(295 mm) x 5.2"(133 mm) x 2.0"(51 mm)

* higher data rate (up to 7Mb/sec) is available per special request.



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