

ECT5084 8 CHANNEL AUDIO/24BIT AND 4 CHANNEL DATA DIGITAL LINK



Audio	Data
8	4
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The ECT5084 system provides a high performance link for transmitting up to four unidirectional Hi-Fi stereo or eight mono audio signals and four multiformat data channels over a single fiber optic cable per single wavelength. The system features broadcast quality providing 24-bit audio processing with uncompressed digital transmission. ECT5084 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

- 5084F-ADTU-X1Z – audio & data transmitter (module or card)
- 5084F-ADRU-X1Z – audio & data receiver (module or card)
- 5084F-ADXU-X1Z – audio & data transceiver (module or card)
- 5084F-AT/DXU-X1Z – audio transmitter & data transceiver (module or card)
- 5084F-AR/DXU-X1Z – audio receiver & data transceiver (module or card)
- 5084F-AX/DTU-X1Z – audio transceiver & data transmitter (module or card)
- 5084F-AX/DRU-X1Z – audio transceiver & data receiver (module or card)

- F = M for multimode 850nm
- = S for single mode 1310nm transmitters & 1310/1550nm receivers
- = S(15) for single mode 1550nm transmitters
- U = 1 for TTL, 3 for RS-232, 4 for RS-422, 5 for RS-485, 9 for Cont. Closure
- X = C for card style*
- = M for module style
- Z = FC, ST or SC** for optical connectors

*compatible with USR series chassis;

** for duplex communication (double size card or module) only.

FEATURES

- ❑ Eight Mono or Four Stereo Audio Channels with 24 bit Digital Processing
- ❑ Four unidirectional or two bidirectional RS-232, RS-422, TTL/CMOS, Contact Closure Data Channels
- ❑ One RS-485 Data Channel
- ❑ Multimode and Single Mode Versions
- ❑ 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	850/1310nm		1310 & 1550 nm
Optical Power Source	Laser		Laser
Optical Power Output	-3 dBm @ 850nm		-3 dBm*
Receiver Sensitivity	-31 dBm & 850 nm		-34 dBm
Receiver Sensitivity (2 fiber)**	-31 dBm & 850 nm		-34 dBm
Receiver Sensitivity (1 fiber)**	-29 dBm & 850 nm		-32 dBm
Optical Connectors	ST, SC**		FC, ST, SC**

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

** for duplex communication only.

Audio Bandwidth	20 Hz – 20 kHz
Audio Input	600 Ohm or 10K, balanced/unbalanced
Audio Input Level (max)	+18 dBm, balanced/unbalanced
Audio Output Level (max)	+18 dBm/balanced or +12 dBm/unbalanced
Audio THD	< 0.1%
Audio S/N Ratio (weighted)	< 85 dB
Supported Data Formats:	RS-232, RS-422, TTL/CMOS, Cont. Closure
Simplex or Duplex	RS-485
Duplex	RS-485
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 1"(26 mm)
Transceiver	11.6"(295 mm) x 5.2"(133 mm) x 2"(51 mm)

* higher data rate (up to 10Mb/sec) is available per special request.



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