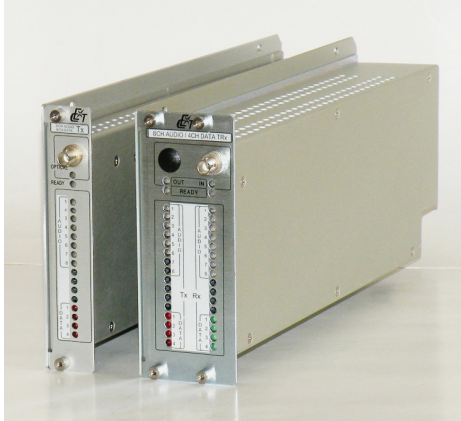


ECT5085 8 CHANNEL AUDIO/24BIT AND 5 CHANNEL DATA DIGITAL OPTICAL LINK



Audio	Data
8	5
→	→
↔	↔

The ECT5085 system provides a high performance link for transmitting up to eight mono or four Hi-Fi stereo analog audio signals and five 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.

The ECT5085 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 and high speed data transfer capability.

FEATURES

- ❑ Eight Mono or Four Stereo Audio Channels, 24 bit Digital Processing
- ❑ Four RS-232, RS-422, TTL/CMOS, Contact Closure and One RS-485 Data Channels
- ❑ Unidirectional or Bi-Directional Versions
- ❑ 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	1310 and/or 850 nm	1310 and/or 1550 nm
Optical Power Source	Laser	Laser
Optical Power Output*	-3 dBm @ 850nm	-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, RS-485, TTL/CMOS, Cont. Closure
Simplex or Duplex	
Data Rate	Up to 1.6 Mb/sec* for TTL, RS-422 1 Mb/sec for RS-485 120 Kb/sec for RS-232
Bit Error Rate	10 ⁻⁹
Power Requirements:	
Transmitter	11 - 15 VDC @ 0.35 A
Receiver	11 - 15 VDC @ 0.5 A
Transceiver	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 1"(26 mm)
Transceiver	11.6"(295 mm) x 5.2"(132 mm) x 2"(51 mm)

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



ORDERING INFORMATION

5085E-ADTU-X1Z – 8 ch. audio & 5 ch. data transmitter, 1 fiber
5085E-ADRU-X1Z – 8 ch. audio & 5 ch. data receiver, 1 fiber
5085E-ADXU-X2Z – 8 ch. audio & 5 ch. data transceiver, 2 fiber
5085E-ADXU-X1Z – 8 ch. audio & 5 ch. data transceiver, 1 fiber

- E = M for multimode 850 nm transmitter & receiver or for transceiver, 2 fiber
- = M(8) for multimode transceiver with 850 nm/TX & 1310 nm/RX, 1 fiber
- = M(13) for multimode transceiver with 1310 nm/TX & 850 nm/RX, 1 fiber
- = S for single mode receiver & 1310 nm transmitter or transceiver with 2 fiber
- = S(15) for single mode receiver & 1550 nm transmitter or transceiver with 2 fiber
- = S(13/15) for single mode transceiver with 1310 nm/TX & 1550 nm/RX, 1 fiber
- = S(15/13) for single mode transceiver with 1550 nm/TX & 1310 nm/RX, 1 fiber
- = S(W1/W2) for single mode CWDM transceiver with W1/TX & W2/RX, 1 fiber

CWDM wavelength (W): **14.7**(1470 nm), **14.9**(1490 nm), **15.1**(1510 nm), **15.3**(1530 nm),
15.5(1550 nm), **15.7**(1570nm), **15.9**(1590 nm), **16.1**(1610 nm).

U = 1 for TTL, 3 for RS-232, 4 for RS-422, 5 for RS-485, 9 for Contact Closure

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

Z = FC, SC, ST for optical connectors

**compatible with USR series chassis;*

Note: The specifications are subject to change without notice.



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