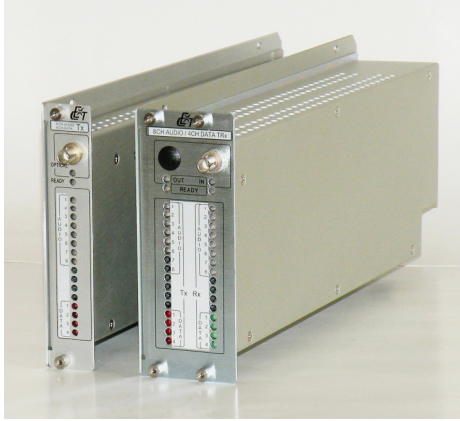


## ECT5084-L 8 CHANNEL AUDIO/24BIT AND 4 CHANNEL DATA DIGITAL OPTICAL LINK WITH UP TO 130 km/ 80 mi RANGE



|       |      |
|-------|------|
| Audio | Data |
| 8     | 4    |
| →     | →    |
| ↔     | ↔    |

The ECT5084-L system provides a high performance link for transmitting up to eight mono or four Hi-Fi stereo analog 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-L 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 340 Mbit/sec 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 Data Channels
- ❑ Unidirectional or Bi-Directional Versions
- ❑ Operating Range Up to 130 km / 80 miles
- ❑ Standalone modular and rack card styles
- ❑ Multifunction Power and Signal Status Indicators

|                              |                        |
|------------------------------|------------------------|
| <b>Fiber Type</b>            | <b>Singlemode</b>      |
| <b>Optical Core Diameter</b> | <b>8/10µ</b>           |
| <b>Operating Wavelength</b>  | 1550 or 1530 & 1570 nm |
| <b>Optical Power Source</b>  | DFB or CWDM Laser      |
| <b>Optical Power Output</b>  | 0 (+/- 0.5) dBm        |
| <b>Receiver Sensitivity</b>  | -42 dBm                |
| <b>Optical Connectors</b>    | FC, SC, ST             |

|  |  |
|--|--|
| <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<br>+12 dBm/unbalanced                  |
| <b>Audio THD</b>                                     | < 0.1%   |
| <b>Audio S/N Ratio (weighted)</b>                    | > 80 dB  |
| <b>Supported Data Formats:<br/>Simplex or Duplex</b> | RS-232, RS-422, TTL/CMOS, Cont.<br>Closure                 |
| <b>Data Rate</b>                                     | Up to 1.6 Mb/sec* for TTL, RS-422<br>120 Kb/sec for RS-232 |
| <b>Bit Error Rate</b>                                | 10 <sup>-9</sup>   |
| <b>Power Requirements:</b>                           |  |
| <b>Transmitter</b>                                   | 11 - 15 VDC @ 0.35 A                                       |
| <b>Receiver</b>                                      | 11 - 15 VDC @ 0.5 A  |
| <b>Transceiver</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 1"(26 mm)                   |
| <b>Transceiver</b>                                   | 11.6"(295 mm) x 5.2"(132 mm) x 2"(51 mm)                   |

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



## ORDERING INFORMATION

5084S-ADTU-X1Z-L – 8 ch. audio & 4 ch. data transmitter, single mode 1550 nm, 1 fiber

5084S-ADRU-X1Z-L – 8 ch. audio & 4 ch. data receiver, single mode 1200 – 1620 nm, 1 fiber

5084S-ADXU-X2Z-L – 8 ch. audio & 4 ch. data transceiver, single mode 1550 nm/TX, 2 fiber

5084S(15.3)-ADXU-X1Z-L – 8 ch. audio & 4 ch. data transceiver, single mode 1530 nm/TX & 1570 nm/RX, 1 fiber

5084S(15.7)-ADXU-X1Z-L – 8 ch. audio & 4 ch. data transceiver, single mode 1570 nm/TX & 1530 nm/RX, 1 fiber

**U** = 1 for TTL, **3** for RS-232, **4** for RS-422, **5** for RS-485 (2 ch./ bi-directional) , **9** for Contact Closure

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

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

*\*compatible with USR series chassis;*

