ECT5080 8 CHANNEL AUDIO/24BIT DIGITAL OPTICAL LINK

FEATURES

- Eight Mono or Four Stereo Audio Channels, 24 bit Digital Processing
- Unidirectional & 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	850nm or 850/1310 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
Optical Connectors	ST, SC	FC, SC

** per wavelength with +/- 0.5 dBm variation*

Audio
8
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The ECT5080 system provides a high performance link for transmitting up to eight mono or four Hi-Fi stereo analog audio signals over a single fiber optic cable per single wavelength. The system features broadcast quality providing 24-bit audio processing with uncompressed digital transmission. ECT5080 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 400 Mbit/sec.

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
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"(133 mm) x 2"(51 mm)

Elcommtech Corp. 2620 Ocean Parkway, Suite 4H, Brooklyn, NY 11235
Tel (718) 743-2869 • Fax (718)648-3642 • E-mail sales@elcommtech.com
http://www.elcommtech.com

ORDERING INFORMATION

5080**E**-AT-**X**1**Z** – 8 ch. audio transmitter, 1 fiber
5080**E**-AR-**X**1**Z** – 8 ch. audio receiver, 1 fiber
5080**E**-AX-**X**2**Z** – 8 ch. audio transceiver, 2 fiber
5080**E**-AX-**X**1**Z** – 8 ch. audio transceiver, 1 fiber

E = **M** for multimode 850 nm transmitter & receiver or for transceiver with 2 fiber
= **M(8.5)** 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(13)** for single mode transceiver with 1310 nm/TX & 1550 nm/RX, 1 fiber
= **S(15)** for single mode 1550 nm transmitter, transceiver with 2 fiber or transceiver with 1550 nm/TX & 1310 nm/RX, 1 fiber
= **S(W)** for single mode CWDM / DFB transmitter or transceiver, 2 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).

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

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

**compatible with USR series chassis;*

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