ECT040 FOUR CHANNEL AUDIO FM OPTICAL LINK

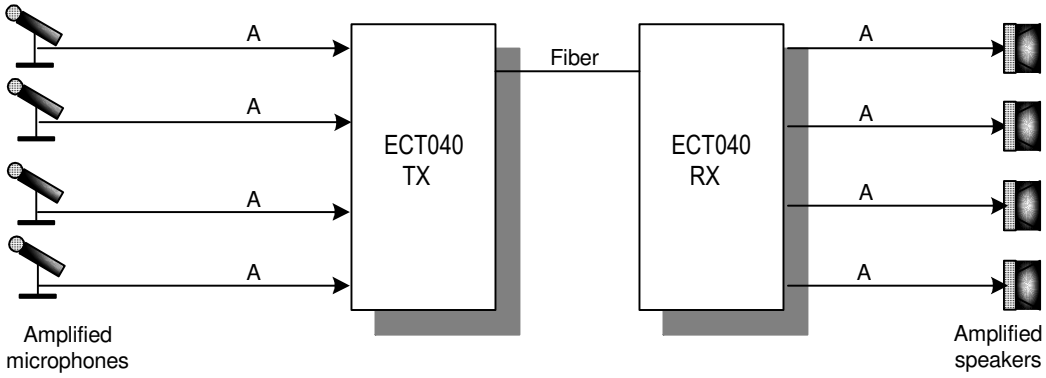
FEATURES

* Frequency Modulation (FM) Quality
* Surface Mount Technology
* Screw Terminal Block (3 pos. Plug) Audio Connectors
* ST, FC, SC Optical Connector
* 4 Channels Audio One-Way
* Up to 6.5 km/4 mi on 850nm Multimode;
* Up to 60 km/37 mi on 1310nm Single Mode;
* Up to 90 km/56 mi on 1550nm Single Mode;
* No User Adjustments
* Status Monitor LEDs
* Dry Contact Lost Link Alarm

APPLICATIONS

* Intercom and Audio Broadcasting
* Security and Surveillance
* Campus Media Retrieval/Distance Learning
* Studio Applications

LAYOUT DIAGRAM



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SPECIFICATIONS

Audio Performance

Audio Input Impedance	600 Ohm or 10K, balanced or unbalanced
Audio Input Level	up to +8 dBm or up to +18 dBm
Audio Output Level	up to +8 dBm @ 600 Ohm or 10K balanced or unbalanced up to +18dBm @ 10K, balanced
Frequency Response @ 3dB	20Hz to 20kHz
Distortions	< 1.5%*
Signal to Noise Ratio	68dB (weighted)*

**measured with1km single mode cable and 100m multimode cable with audio signal level 0 dBm.*

General Parameters

Operating Temperature	- 20°C to +70°C
Storage Temperature	- 40°C to +85°C
Operating Humidity	0 to 95% non-condensing
Dimensions	
156mm (6.15") L, 84mm (3.3") W, 62mm (2.42") H	
Power (optional)	
option 1	6 - 7 VDC, 0.4 A
option 2	10 -14 VDC, 0.2 A

Optical Performance

Operating Wavelength	850nm	1310 nm and/or 1550 nm
Transmitter Optical Source	VCSEL	Laser
Fiber Type	50/125 or 62.5/125 μ	8 – 10 μ
Transmitter Output Power (with +/- 1dBm variation)	-4 dBm	-4 dBm
Receiver Sensitivity (2 fiber)	-34 dBm	-34 dBm
Optical Loss Budget (2 fiber)	30 dB	29 dB
Receiver Sensitivity (1 fiber)	N/A	-34 dBm
Optical Loss Budget (1 fiber)	N/A	28 dB

ORDERING INFORMATION

040**E-**AT**-**M(**P**)**YZ** – four channel audio transmitter module
040**E-**AR**-**M(**P**)**YZ** – four channel audio receiver module

E = **M** for multimode 850 nm
= **S** for single mode receiver and 1310nm transmitter
= **S(15)** for single mode 1550nm transmitter
= **S(15)D** for single mode transmitter DFB 1550 nm only
P = **12** for 10-14 VDC power option
Y = **1, 2** for number of fiber (1 fiber for single mode only)
Z = **FC, ST, SC** for optical connector

Note: The specifications are subject to change without notice.

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