ECT040 FOUR CHANNEL AUDIO FM OPTICAL LINK

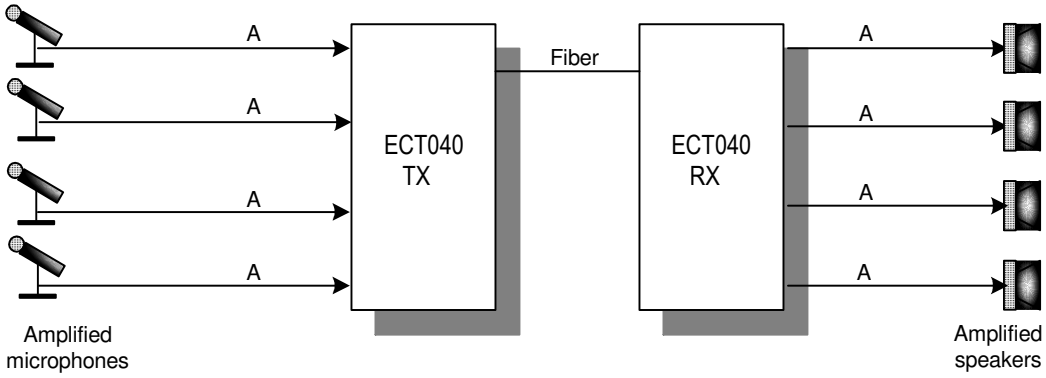
FEATURES

* 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)**

**with normal level 0 dBm;*
***measured with1km/8-10μ SM and 100m/62.5μ MM cables*

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 -15 VDC, 0.2 A
Mean Time Between Failures (MTBF)	>100,000Hrs.

Optical Performance

Operating Wavelength	850nm	1310 and/or 1550nm
Transmitter Optical Source	VCSEL	Laser
Fiber Type	50/125 µ or 62.5/125 µ	8 – 10 µ
Transmitter Output Power (with +/- 1dBm variation)	-4 dBm	-6 dBm
Receiver Sensitivity (2 fiber)	-34 dBm	-35 dBm
Optical Loss Budget (2 fiber)	30 dB	29 dB
Receiver Sensitivity (1 fiber)	-28 dBm @ 850nm	-34 dBm
Optical Loss Budget (1 fiber)	24 dB @ 850nm	28 dB

ORDERING INFORMATION

040E-AU-M(**P**)**YZ** – standalone module

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

Note: The specifications are subject to change without notice.

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