ECT020(4) QUAD CHANNEL FM AUDIO OPTICAL LINK

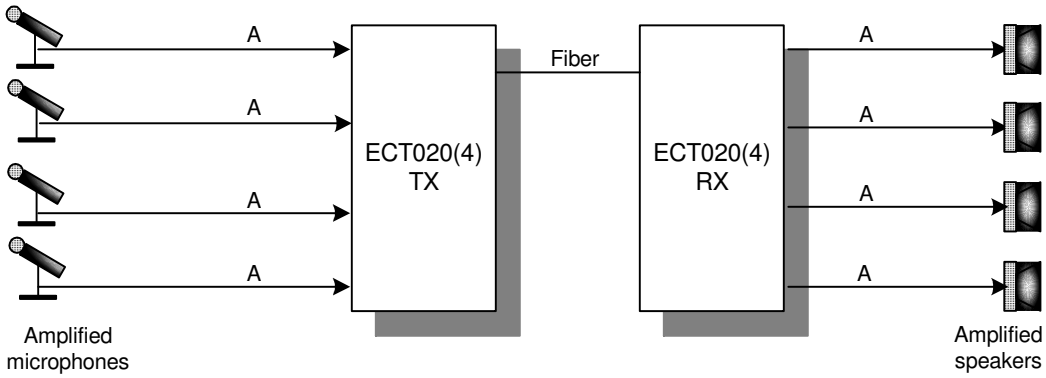
FEATURES

* 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 18 km/11 mi on 1300nm multimode;
* Up to 56 km/35 mi on 1310nm singlemode;
* Up to 90 km/56 mi on 1550nm singlemode;
* No User Adjustments
* Status Monitor LEDs

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 with 1km / 62.5µ cable and audio level 0 dBm @ 600 Ohm.*

General Parameters

Operating Temperature	- 30°C to +70°C
Storage Temperature	- 40°C to +85°C
Operating Humidity	0 to 95% non-condensing
Dimensions (module)	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	1300nm		1310 and/or 1550nm
Transmitter Optical Source	VCSEL	LED		Laser
Fiber Type	50/125µ or 62.5/125µ	50/125µ	62.5/125µ	Singlemode
Transmitter Output Power (with +/- 1dBm variation)	-6 dBm	-17 dBm	-14 dBm	-6 dBm
Receiver Sensitivity (2 fiber)	-35 dBm	-37 dBm		-37 dBm
Optical Loss Budget (2 fiber)	29 dB	20 dB	23 dB	31 dB
Receiver Sensitivity (1 fiber)	-34 dBm @ 850nm			-36 dBm
Optical Loss Budget (1 fiber)	28 dB @ 850nm			30 dB

ORDERING INFORMATION

020E-AU4-M(P)YZ – standalone module
020E-AU4-CYZ – rack card*

E = **M** for multimode
= **M(13)** for multimode 1300nm
= **S** for single mode receiver or 1310nm transmitter
= **SP** for high power (0 dBm) 1310nm transmitter option
= **S(15)** for single mode 1550nm transmitter
= **S(15)P** for high power (0 dBm) 1550nm transmitter option
U = **T** for transmitter, **R** for receiver
P = **12** for 10-15VDC power option (for module only)
Y = **1, 2** for number of fibers
Z = **FC, ST, SC** for optical connector

******Compatible with USR series chassis*

Note: The specifications are subject to change without notice.

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