

ECT020(4)

QUAD CHANNEL FM AUDIO OPTICAL LINK



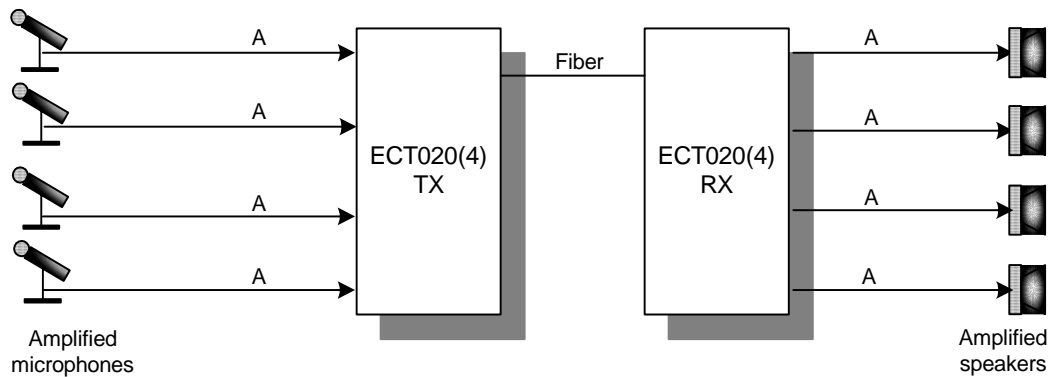
FEATURES

- * 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 5 km/3mi on 850nm multimode;
- * Up to 16 km/10mi on 1300nm multimode;
- * Up to 50km/30mi on 1310nm singlemode;
- * Up to 80km/50mi 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



SPECIFICATIONS

Audio Performance

Audio Input Impedance	600 Ohm or 10K, balanced
Audio In/Output Level	0dBm @ 600 Ohm or 10K +18dBm @ 10K
Frequency Response @ 3dB	20Hz to 20kHz
Distortions	< 1.5%
Signal to Noise Ratio	> 68dB (weighted)*

* measured with 1km, 62.5μ cable

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, 0.4A
option 2	10 -15 VDC, 0.3A
Mean Time Between Failures (MTBF)	>100,000Hrs.

Optical Performance

Operating Wavelength	850nm	1300nm		1310 and/or 1550nm
Transmitter Optical Source	Laser	LED		Laser
Fiber Type	50/125μ or 62.5/125μ	50/125μ	62.5/125μ	Singlemode
Transmitter Output Power	-5 dBm	-17 dBm	-14 dBm	-6 dBm
Receiver Sensitivity (2 fiber)	-33 dBm	-36 dBm		-36 dBm
Optical Loss Budget (2 fiber)	28 dB	19 dB	22 dB	30 dB
Receiver Sensitivity (1 fiber)	-31 dBm @ 850nm			-34 dBm
Optical Loss Budget (1 fiber)	26 dB @ 850nm			28 dB

ORDERING INFORMATION

020E-AU4-M(P)YZ – standalone module

020E-AU4-CYZ – rack card*

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

*Compatible with USR series chassis



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