

ECT020

TWO CHANNEL AUDIO FM OPTICAL LINK



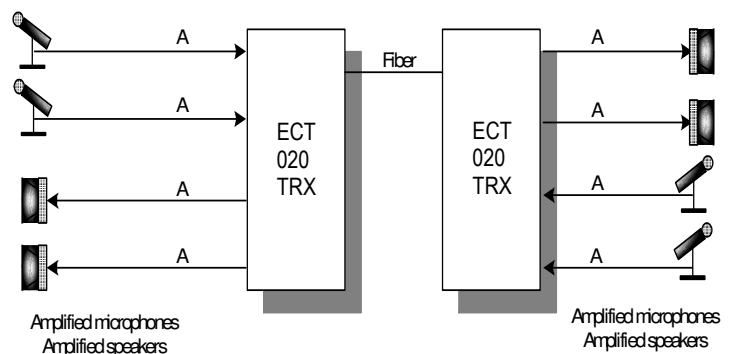
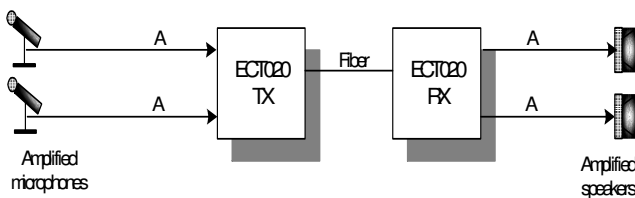
FEATURES

- * Frequency Modulation (FM) Quality
- * Surface Mount Technology
- * Screw Terminal Block Audio Connectors
- * ST, FC, SC Optical Connector
- * 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



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 with 1km/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

020E-AT-M(P)1Z – two channel audio transmitter module

020E-AR-M(P)1Z – two channel audio receiver module

020E-AX-M(P)YZ – two channel audio transceiver module

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

Note: The specifications are subject to change without notice.



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