

## ECT020D

## FM AUDIO AND DATA OPTICAL LINK



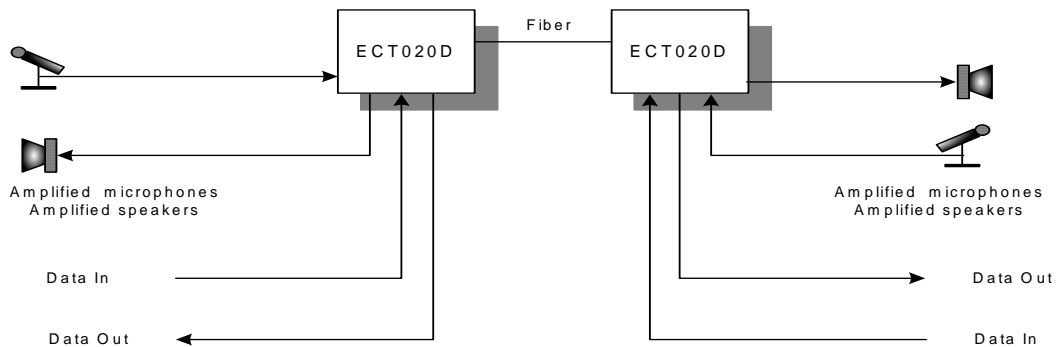
### FEATURES

- \* Frequency Modulation (FM) Quality
- \* Surface Mount Technology
- \* Screw Terminal Block (3 pos. Plug) Audio Connectors
- \* ST, FC, SC Optical Connector
- \* Up to 6 km/4 mi on 850 nm multimode;
- \* Up to 18 km/10 mi on 1300 nm multimode;
- \* Up to 50 km/30 mi on 1310 nm singlemode;
- \* Up to 80 km/50 mi on 1550 nm singlemode;
- \* No User Adjustments
- \* Status Monitor LEDs

### APPLICATIONS

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

### LAYOUT DIAGRAM



# ECT100 SERIES

## SPECIFICATIONS

### Audio Performance

Audio Input Impedance	600 Ohm or 10K, balanced
Audio In/Out 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

### Data Performance

Data rate range	DC – 50 kb/sec
Contact Closure Out	Dry contact @ load 30 VDC or 24VAC / 1A max
Contact Bounce Time	< 5 msec

### General Parameters

Operating Temperature	- 30°C to +70°C
Storage Temperature	- 40°C to +85°C
Operating Humidity	0 to 95% non-condensing
Weight	340g (12oz)
Dimensions	156mm (6.15") L, 84mm (3.3") W, 62mm (2.42") H
Power (optional)	
option 1	6 - 7 VDC, 0.2 - 0.4A
option 2	10 -15 VDC, 0.1 - 0.2A
Mean Time Between Failures (MTBF)	>100,000Hrs.

### Optical Performance

Operating Wavelength	850nm	1300nm		1310 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 (with +/- 1 dBm variation)	-5 dBm	-17 dBm	-14 dBm	-6 dBm
Receiver Sensitivity	-33 dBm	-36 dBm		-36 dBm
Optical Loss Budget	28 dB	19 dB	22 dB	30 dB



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# ECT100 SERIES

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## ORDERING INFORMATION

020DE-ADT-M(P)1Z – Audio & data transmitter module

020DE-ADR-M(P)1Z – Audio & data receiver module

020DE-ADT2-M(P)YZ – Dual audio & data transmitter module

020DE-ADR2-M(P)YZ – Dual audio & data receiver module

020DE-AT/DX-M(P)YZ – Audio transmitter & data transceiver module

020DE-AR/DX-M(P)YZ – Audio receiver & data transceiver module

020DE-AX/DT-M(P)YZ – Audio transceiver & data transmitter module

020DE-AX/DR-M(P)YZ – Audio transceiver & data receiver module

020DE-ADX-M(P)YZ – Audio & data transceiver module

020DE-VADT2-CYZ – Dual audio & data transmitter rack card\*

020DE-VADR2-CYZ – Dual audio & data receiver rack card\*

020DE-AT/DX-CYZ – Audio transmitter & data transceiver rack card\*

020DE-AR/DX-CYZ – Audio receiver & data transceiver rack card\*

020DE-AX/DT-CYZ – Audio transceiver & data transmitter rack card\*

020DE-AR/DR-CYZ – Audio transceiver & data receiver rack card\*

020DE-ADX-CYZ – Audio & data transceiver rack card\*

**D** = **1** for TTL/CMOS, **3** for RS-232, **4** for RS-422, **9** for Contact Closure

**E** = **M** for multimode

= **M(13)** for multimode 1300nm

= **S** for single mode

= **S(15)** for single mode 1550nm

**P** = **12** for 10-15VDC power option

**Y** = **1, 2** for number of fibers

**Z** = **FC, ST, SC\*\*** for optical connector

*\*Compatible with USR Series chassis;*

*\*\*For module only.*



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