

ECT020D

FM AUDIO AND DATA OPTICAL LINK



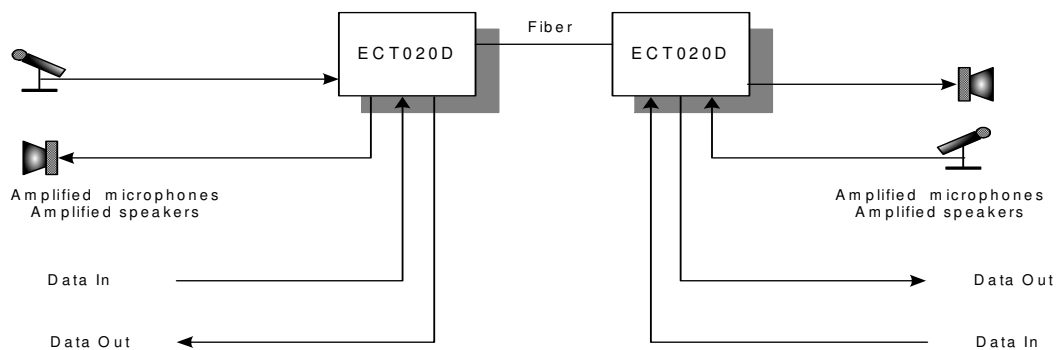
FEATURES

- * Frequency Modulation (FM) Quality
- * Surface Mount Technology
- * Screw Terminal Block (3 pos. Plug) Audio Connectors
- * ST, FC, SC Optical Connector
- * Up to 6.5 km/4 mi on 850 nm multimode;
- * Up to 18 km/11 mi on 1300 nm multimode;
- * Up to 56 km/35 mi on 1310 nm singlemode;
- * Up to 90 km/56 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 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.

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	VCSEL	LED		Laser
Fiber Type	50/125μ or 62.5/125μ	50/125μ	62.5/125μ	Singlemode
Transmitter Output Power (with +/- 1 dBm variation)	-6 dBm	-17 dBm	-14 dBm	-6 dBm
Receiver Sensitivity	-35 dBm	-37 dBm		-37 dBm
Optical Loss Budget	29 dB	30 dB	23 dB	31 dB



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ECT100 SERIES

ORDERING INFORMATION

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

020**DE**-ADT2-M(**P**)**YZ** – Dual audio & data transmitter module
020**DE**-ADR2-M(**P**)**YZ** – Dual audio & data receiver module

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

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

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

020**DE**-VADT2-C**YZ** – Dual audio & data transmitter rack card*
020**DE**-VADR2-C**YZ** – Dual audio & data receiver rack card*

020**DE**-AT/DX-C**YZ** – Audio transmitter & data transceiver rack card*
020**DE**-AR/DX-C**YZ** – Audio receiver & data transceiver rack card*

020**DE**-AX/DT-C**YZ** – Audio transceiver & data transmitter rack card*
020**DE**-AR/DR-C**YZ** – Audio transceiver & data receiver rack card*

020**DE**-ADX-C**YZ** – 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 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
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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