

ECT1022 2 CH. AUDIO/24 BIT AND 2 CH. DATA DIGITAL OPTICAL LINK



Audio	Data
2	2
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The ECT1022 system provides a high performance link for transmitting of one two unidirectional audio and two unidirectional or bi-directional data channels over a single fiber optic cable. The system features broadcast audio quality providing 24-bit audio processing with uncompressed digital transmission. ECT1022 utilizes high speed Analog-to-Digital and Digital-to-Analog Conversion with 24-Bit Resolution for audio, Digital Signal Processing, Time Division Multiplexing and Fibre Optic Transmission at a data rate of up to 450 Mbit/sec.

FEATURES

- ❑ Broadcast Quality 1 x Stereo or 2 x Mono Audio Channels
- ❑ 2 x RS-232/RS-422/TTL/Contact Closure or 1 x RS-485 Data Channels
- ❑ Multifunction Power and Signal Status Indicators

Fiber Type	Multimode	Singlemode
Optical Core Diameter	50µ/62.5µ	8/10µ
Operating Wavelength	850	1310/1550 nm
Optical Power Source	Laser (VCSEL)	Laser
Optical Power Output	-3 dBm	-3 dBm*
Receiver Sensitivity	-28 dBm	-31 dBm
Optical Connectors	ST, SC	FC, ST, SC

* with +/- 1 dBm variation; higher power laser sources are available per special request.

Audio Channel Characteristics

Audio Input	600 Ω or 10K, Balanced
Audio Input Levels	0 to +18 dBm
Audio Output	Balanced or Unbalanced
Audio Output Levels	0 to +18 dBm (balanced, 10K load), 0 to +12dBm (unbalanced, 10K load)
Audio Bandwidth @ 3dB	10Hz to 20 kHz
Audio Signal-to-Noise Ratio	> 85 dB (0 dBm, 10K Load)
THD	< 0.1% (0 dBm, 10K Load)

Data Channel Characteristics

Supported Data Formats:	RS-232, RS-422, TTL, Cont. Closure
Simplex or Duplex	RS-485
Duplex	
Data Channel Bit-Rate	Up to 2.5 Mb/sec*
Bit Error Rate	10 ⁻⁹

* higher data rates up to 5 Mb/sec are available per special request.



ECT100 SERIES

Power Requirements	11 - 14 VDC @ 300mA 21 - 27VAC @ 200mA
Operating Temperature	-30°C to +70°C (-22°F to +158°F)
Dimensions (without connectors):	6.7"(170mm) x 4.95"(126mm) x 1.32"(34mm)

ORDERING INFORMATION

1022F-ADTU-M1Z - 2 ch. audio & 2 ch. data transmitter module
1022F-ADRU-M1Z - 2 ch. audio & 2 ch. data receiver module
1022F-AT/DXU-MYZ - 2 ch. audio transmitter & 2ch. data transceiver module
1022F-AR/DXU-MYZ - 2 ch. audio receiver & 2ch. data transceiver module

F = M for multimode 850nm
= S for single mode 1310nm
= S(15) for single mode 1550nm
U = 1 for TTL, 3 for RS-232, 4 for RS-422, 5 for RS-485*, 9 for Contact Closure
Y = 1, 2 for number of fibers
Z = ST, FC, SC for optical connectors

**RS-485 interfacing is available with 1022F-AT/DX5-MYZ and 1022F-AR/DX5-MYZ models only.*



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