

ECT1022 2 CHANNEL AUDIO/24 BIT AND 2 CHANNEL DATA DIGITAL OPTICAL LINK



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
Receiver Sensitivity**	-26 dBm	-29 dBm
Optical Connectors	ST, SC	FC, ST, SC

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

** for one-fiber configuration with internal WDM.

Audio	Data
2	2
→	↔

The ECT1022 system provides a high performance link for transmitting of 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.

Audio Channel Characteristics

Audio Input	600 Ω or 10K, Balanced
Audio Output	Balanced or Unbalanced
Audio In/Out Level (max)	+18 dBm/balanced or +12 dBm/unbalanced
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:	
RS-232, RS-485	Up to 200 kb/sec
RS-422, TTL	Up to 2.5 Mb/sec*
Contact Closure Switching Time	Up to 4 msec
Contact Closure Input (TX)	Dry Contact
Contact Closure Output (RX)	Dry Contact @ 24VAC or 30VDC/1A
Bit Error Rate	10 ⁻⁹

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



Power Requirements	11 - 15 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
= **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

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.*

