

ECT120D FM VIDEO, AUDIO AND DATA OPTICAL LINK



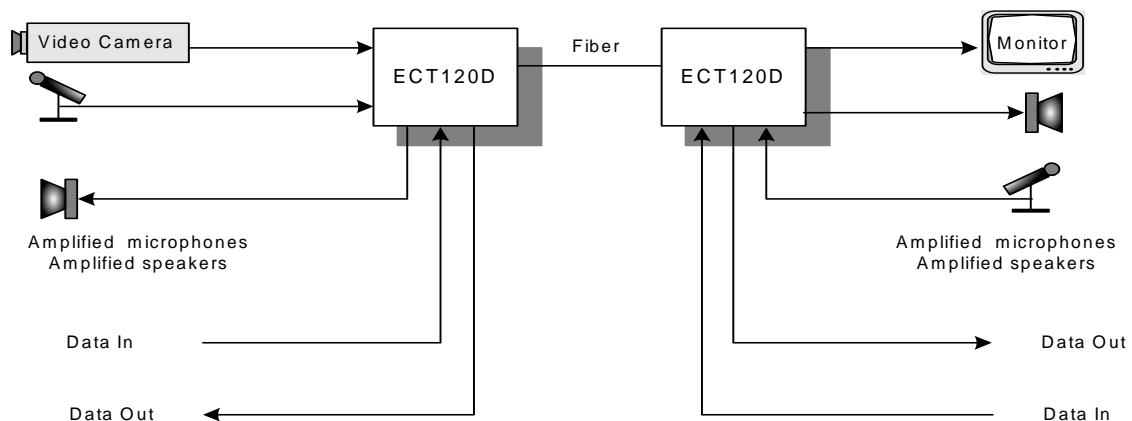
FEATURES

- * CCTV Professional Video & Audio Quality
- * NTSC, PAL, SECAM Compatible
- * Balanced Video Input
- * BNC I/O Video Connector
- * Screw Terminal Block (3 pos. Plug) Audio & Data Connectors
- * ST, FC, SC Optical Connector
- * Up to 4 km/2.5mi on 850nm multimode;
- * Up to 12 km/7.5mi on 1300nm multimode;
- * Up to 40km/25mi on 1310nm single mode;
- * Up to 65km/40mi on 1550nm single mode;
- * No User Adjustments
- * Status Monitor LEDs

APPLICATIONS

- * Security and Surveillance
- * Video Teleconferencing
- * Campus Media Retrieval/Distance Learning
- * Telemedicine

LAYOUT DIAGRAM



SPECIFICATIONS

Video Performance

Video In/Output Impedance	75 Ohm, balanced
Video In/Output Voltage	1.0V p-p typ, 1.5V max
Video Bandwidth @ 1dB	10Hz to 6.5MHz
Differential Gain (10-90% APL)	< 2% typ
Differential Phase (10-90% APL)	< 2° typ
Signal to Noise Ratio	67dB (weighted)

Audio Performance

Audio Input Impedance	600 Ohm or 10K, balanced
Audio In/Output Level	0dBm @ 600 Ohm or 10K +18dBm @ 10K
Frequency Response @ 3dB	20Hz to 20kHz
Distortions	< 1.5%
Signal to Noise Ratio	> 65dB (weighted)

Data Performance

Data rate range	DC – 50 kb/sec
Contact Closure Out	Dry contact @ load 30 VDC or 24 VAC / 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 (module)	400g (14oz)
Weight (1 slot card)	370g (13oz)
Dimensions (module)	156mm (6.15") L, 84mm (3.3") W, 62mm (2.42") H
Power (optional)	
option 1	6 - 7 VDC, 0.25 – 0.5 A
option 2	10 -15 VDC, 0.15 - 0.3 A
Mean Time Between Failures (MTBF)	>100,000Hrs.

Optical Performance

Operating Wavelength	850nm	1300nm		1310 and/or 1550nm
Transmitter Optical Source	Laser	LED		Laser
Fiber Type	50/125 μ or 62.5/125 μ	50/125 μ	62.5/125 μ	Singlemode
Transmitter Output Power	-8 dBm	-17 dBm	-14 dBm	-8 dBm
Receiver Sensitivity (2 fiber)	-30 dBm	-32 dBm		-32 dBm
Optical Loss Budget (2 fiber)	22 dB	15 dB	18 dB	24 dB
Receiver Sensitivity (1 fiber)	-28 dBm @ 850nm			-30 dBm
Optical Loss Budget (1 fiber)	20 dB @ 850nm			22 dB



ORDERING INFORMATION

120DE-VADT-M(P)1Z – Video, audio & data transmitter module

120DE-VADR-M(P)1Z – Video, audio & data receiver module

120DE-VADT2-M(P)YZ – Dual video, audio & data transmitter module

120DE-VADR2-M(P)YZ – Dual video, audio & data receiver module

120DE-VT/ADR-M(P)YZ – Video transmitter & audio, data receiver module

120DE-VR/ADT-M(P)YZ – Video receiver & audio, data transmitter module

120DE-VT/ADX-M(P)YZ – Video transmitter & audio, data transceiver module

120DE-VR/ADX-M(P)YZ – Video receiver & audio, data transceiver module

120DE-VADX-M(P)YZ – Video, audio & data transceiver module

120DE-VADT2-CYZ – Dual video, audio & data transmitter rack card*

120DE-VADR2-CYZ – Dual video, audio & data receiver rack card*

120DE-VT/ADR-CYZ – Video transmitter & audio, data receiver rack card*

120DE-VR/ADT-CYZ – Video receiver & audio, data transmitter rack card*

120DE-VT/ADX-CYZ – Video transmitter & audio, data transceiver rack card*

120DE-VR/ADX-CYZ – Video receiver & audio, data transceiver rack card*

120DE-VADX-CYZ – Video, 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 (for module only)

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

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

*Compatible with USR Series chassis;

**For module only.

