

ECT120

FM VIDEO AND 2 CHANNEL FM AUDIO OPTICAL LINK



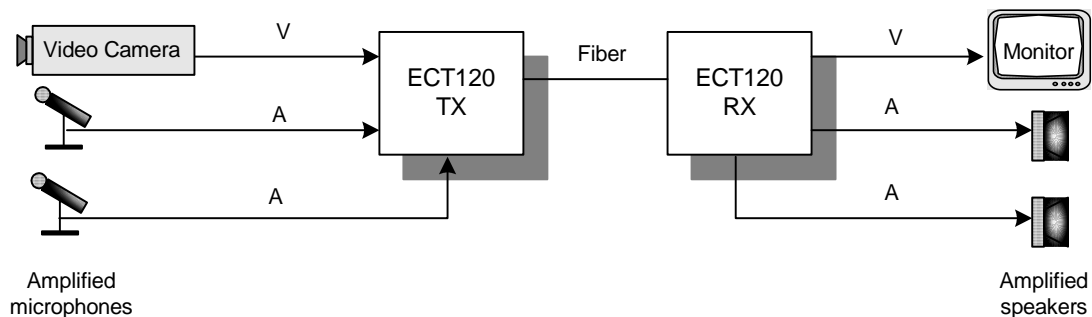
FEATURES

- * Frequency Modulation (FM) Quality
- * NTSC, PAL, SECAM Compatible
- * Surface Mount Technology
- * Balanced Video Input
- * BNC I/O Video Connector
- * Screw Terminal Block (3 pos. Plug) Audio Connectors
- * ST, FC, SC Optical Connector
- * Video and 2 Channels Audio
- * Up to 4 km/2.5mi on 850nm multimode;
Up to 16 km/100mi on 1300nm multimode;
Up to 80km/50mi on singlemode.
- * 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 (unbalanced)
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 In/Output Impedance	600 Ohm or 10K bal/unbal,
Audio In/Output Level	0dBm or +18dBm
Frequency Response @ 3dB	20Hz to 20kHz
Distortions	< 1.5%
Signal to Noise Ratio	> 65dB (weighted)

General Parameters

Operating Temperature	- 30°C to +74°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	6.5 - 7 VDC, 0.25A
option 2	10 -15 VDC, 0.18A
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	62.5/125μ	50/125μ	62.5/125μ	8 – 9/125μ
Transmitter Output Power	-6 dBm		-17 dBm	-14 dBm	-7 dBm
Receiver Sensitivity	-33 dBm		-35 dBm		-35 dBm
Optical Loss Budget	27 dB		18 dB	21 dB	28 dB

ORDERING INFORMATION

120E-VAU-M(P)1Z – standalone module

120E-VAU-C1Z – rack card*

- E** = **M** for multimode
- = **M(13)** for multimode 1300nm only
- = **S** for singlemode
- = **S(15)** for singlemode 1550nm only
- P** = **6.5, 12** for power option
- U** = **T** for transmitter, **R** for receiver
- Z** = **FC** connector
- = **ST** connector
- = **SC** connector

*Compatible with USR series chassis



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