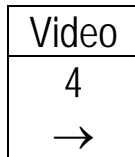


ECT5400 4 CHANNEL VIDEO/10 BIT DIGITAL LINK



The ECT5400 system provides a high performance link for transmitting up to four unidirectional composite video signals over a single fiber optic cable (single wavelength.) The system features broadcast video quality providing 10-bit video processing with uncompressed digital transmission. ECT5400 utilizes high speed Analog-to-Digital and Digital-to-Analog Conversion with 10-Bit Resolution, Digital Signal Processing, Time Division Multiplexing and Fibre Optic Transmission at a data rate of up to 1.4 Gbit/sec.

ORDERING INFORMATION

5400F-VT-X1Z – 4 ch. transmitter
 5400F-VR-X1Z – 4 ch. receiver
 5400F-VX-XYZ – 4 ch. transceiver

F = M for multimode 850nm
 = M(13) for multimode 850 & 1310nm
 = S for singlemode 1310nm
 = S(15) for singlemode 1550nm or 1310 & 1550 nm
 X = C for card style*
 = M for module style
 Y = 1, 2 for number of fibers
 Z = FC, ST optical connectors

*compatible with USR series chassis

FEATURES

- ❑ Broadcast Video Quality with 10-bit Uncompressed Video Processing
- ❑ Supports NTSC, PAL, SECAM and Component (YUV, RGB, Y/C) Video Formats
- ❑ 4 Composite Video Channels per Single Fiber / Single Wavelength
- ❑ Input Video Cable Equalization
- ❑ Multifunction Power and Signal Status Indicators

Fiber Type	Multimode	Singlemode
Optical Core Diameter	50μ or 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	-20 dBm	-22 dBm
Optical Connectors	ST	FC, ST
Maximum Length of Fiber	1 km	20 km

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

Video Bandwidth @1dB	7 MHz
Video Input	75Ω balanced
Video Input Level	NTSC: 1.0 V p-p, PAL: 1.3 V p-p
Signal-to-Noise Ratio	64 dB*
Differential Gain	< 0.5 %
Differential Phase	< 0.5 °
Field Tilt	< 0.5 %
Luminance Non-Linearity	< 0.5%
Chrominance/	< 20ns
Luminance Delay	
K-2T Factor	< 1.0%
Power Requirements	12V DC @ 0.5A
Operating Temperature	-30°C to +70°C (-22°F to +158°F)
Dimensions	11.6"(293mm) x 5.2"(133mm) x 1"(26mm)

*measured with ECT5400 receiver as per RS-250C



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