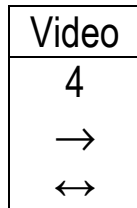


## ECT5400-L 4 CHANNEL VIDEO/10 BIT DIGITAL OPTICAL LINK WITH UP TO 96 km/60 mi RANGE



The ECT5400-L system provides a high performance link for transmitting up to four unidirectional or bi-directional composite video signals over a single fiber optic cable. The system features broadcast video quality providing 10-bit video processing with uncompressed digital transmission. The ECT5400-L 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.

### FEATURES

- ❑ Broadcast Video Quality with 10-bit Uncompressed Video Processing
- ❑ Operating Range Up to 96 km / 60 miles
- ❑ Supports NTSC, PAL, SECAM and Component (YUV, RGB, Y/C) Video Formats
- ❑ 4 Composite Unidirectional Video Channels per Single Fiber / Wavelength
- ❑ 4 Composite Bi-directional Video Channels per Dual or Single Fiber
- ❑ Input Video Cable Equalization
- ❑ Multifunction Power and Signal Status Indicators

Fiber Type	Singlemode
Optical Core Diameter	8/10µ
Operating Wavelength:	
Transmitter	1550 nm or CWDM/1470 – 1610 nm
Receiver	1260 – 1620 nm
Optical Power Source	DFB Laser
Optical Power Output	0 (+/- 0.5) dBm
Receiver Sensitivity	-33 dBm
Receiver Maximum Input Power	-6 dBm
Optical Connectors	FC, ST, SC

Video Bandwidth @ 2 dB	10Hz - 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 & Luminance Delay	< 20ns
K-2T Factor	< 1.0%
Power Requirements:	
transmitter or receiver	11 - 15 VDC @ 0.5 A
transceiver	11 - 15 VDC @ 1.0 A
Operating Temperature	-30°C to +70°C (-22°F to +158°F)
Dimensions:	
transmitter or receiver	11.6"(295 mm) x 5.2"(132 mm) x 1"(26 mm)
transceiver	11.6"(295 mm) x 5.2"(132 mm) x 2"(51 mm)



## ORDERING INFORMATION

5400S-VT-**X1Z**-L – 4 Ch. video transmitter 1550 nm/DFB, 1 fiber  
5400S(**W**)-VT-**X1Z**-L – 4 Ch. video transmitter CWDM 1470 – 1610 nm, 1 fiber  
5400S-VR-**X1Z**-L – 4 Ch. video receiver 1200 - 1620 nm, 1 fiber

CWDM wavelength (**W**): **14.7**(1470 nm), **14.9**(1490 nm), **15.1**(1510 nm), **15.3**(1530 nm),  
**15.5**(1550 nm), **15.7**(1570nm), **15.9**(1590 nm), **16.1**(1610 nm).

5400S-VR-**X1Z**-L – 4 Ch. video receiver 1260 - 1620 nm, 1 fiber

5400S-VX-**X2Z**-L – 4 Ch. video transceiver 1550 nm/TX & 1260 – 1620 nm/RX, 2 fiber  
5400S(15.3)-VX-**X1Z**-L – 4 Ch. video transceiver module, single mode 1530 nm/TX & 1570 nm/RX, 1 fiber  
5400S(15.7)-VX-**X1Z**-L – 4 Ch. video transceiver module, single mode 1570 nm/TX & 1530 nm/RX, 1 fiber

**X** = **M** for module style  
= **C** for card style\*

**Z** = **FC, SC, ST** optical connectors

\*compatible with USR series chassis



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