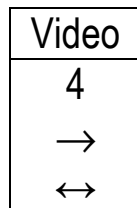


## ECT5400 4 CHANNEL VIDEO/10 BIT DIGITAL OPTICAL LINK



The ECT5400 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 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
- ❑ Supports NTSC, PAL, SECAM and Component (YUV, RGB, Y/C) Video Formats
- ❑ 4 Composite Unidirectional Video Channels per Single Fiber / Single Wavelength
- ❑ 4 Composite Bi-directional Video Channels per Dual or Single Fiber
- ❑ Input Video Cable Equalization

Fiber Type	Multimode	Singlemode
<b>Optical Core Diameter</b>	<b>50µ or 62.5µ</b>	<b>8/10µ</b>
<b>Operating Wavelength: transmitter/receiver &amp; transceiver - 2 fiber</b>	850 nm	1310 or 1550 nm
<b>transceiver - 1 fiber</b>	850 & 1310 nm	1310 & 1550 nm
<b>Optical Power Source</b>	Laser	Laser
<b>Optical Power Output*</b>	-3 dBm	-3 dBm
<b>Receiver Sensitivity: transmitter/receiver &amp; transceiver - 2 fiber</b>	-21 dBm	-23 dBm
<b>transceiver - 1 fiber</b>	-19 dBm	-21 dBm
<b>Optical Connectors</b>	ST, SC	FC, ST, SC

\*per wavelength with +/- 0.5 dBm variation.

<b>Video Bandwidth @ 2 dB</b>	10Hz - 7 MHz
<b>Video Input</b>	75Ω balanced
<b>Video Input Level</b>	NTSC: 1.0 V p-p, PAL: 1.3 V p-p
<b>Signal-to-Noise Ratio</b>	64 dB
<b>Differential Gain</b>	< 0.5 %
<b>Differential Phase</b>	< 0.5 °
<b>Field Tilt</b>	< 0.5 %
<b>Luminance Non-Linearity</b>	< 0.5%
<b>Chrominance/Luminance Delay</b>	< 20ns
<b>K-2T Factor</b>	< 1.0%
<b>Power Requirements:</b>	
<b>transmitter or receiver</b>	11 - 15 VDC @ 0.5 A
<b>transceiver</b>	11 - 15 VDC @ 1.0 A
<b>Operating Temperature</b>	-30°C to +70°C (-22°F to +158°F)
<b>Dimensions:</b>	
<b>transmitter or receiver</b>	11.6"(295 mm) x 5.2"(132 mm) x 1"(26 mm)
<b>transceiver</b>	11.6"(295 mm) x 5.2"(132 mm) x 2"(51 mm)



## ORDERING INFORMATION

5400M-VT-**X1Z** – 4 Ch. video transmitter 850 nm, 1 fiber  
5400M-VR- **X1Z** – 4 Ch. video receiver 850 nm, 1 fiber

5400S-VT-**X1Z** – 4 Ch. video transmitter 1310 nm, 1 fiber  
5400S(15)-VT-**X1Z** – 4 Ch. video transmitter 1550 nm - DFB, 1 fiber  
5400S(**W**)-VT-**X1Z** – 4 Ch. video transmitter CWDM, 1 fiber  
5400S-VR- **X1Z** – 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).

5400M-VX-**X2Z** – 4 Ch. video transceiver 850 nm, 2 fiber  
5400M-VX-**X1Z** – 4 Ch. video transceiver 850 nm/TX & 1310 nm/RX, 1 fiber  
5400M(13)-VX-**X1Z** – 4 Ch. video transceiver 1310 nm/TX & 850 nm/RX, 1 fiber

5400S-VX-**X2Z** – 4 Ch. video transceiver 1310 nm, 2 fiber  
5400S(15)-VX-**X2Z** – 4 Ch. video transceiver 1550 nm, 2 fiber  
5400S-VX-**X1Z** – 4 Ch. video transceiver 1310 nm/TX & 1550 nm/RX, 1 fiber  
5400S(15)-VX-**X1Z** – 4 Ch. video transceiver 1550 nm/TX & 1310 nm/RX, 1 fiber

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

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

*\*compatible with USR series chassis*

