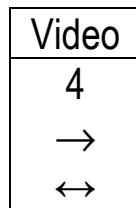


ECT5400 4 CHANNEL VIDEO/10 BIT DIGITAL OPTICAL LINK



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

*per wavelength with +/- 0.5 dBm variation.

| | |
|--|--|
| 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 | -20°C to +60°C (-4°F to +140°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

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

5400S-VT-**X1Z** – 4 Ch. video transmitter, single mode 1310 nm, 1 fiber
5400S(15)-VT-**X1Z** – 4 Ch. video transmitter, single mode 1550 nm - DFB, 1 fiber
5400S(**W**)-VT-**X1Z** – 4 Ch. video transmitter, single mode CWDM, 1 fiber
5400S-VR- **X1Z** – 4 Ch. video receiver, single mode 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, multimode 850 nm, 2 fiber
5400M-VX-**X1Z** – 4 Ch. video transceiver, multimode 850 nm/TX & 1310 nm/RX, 1 fiber
5400M(13)-VX-**X1Z** – 4 Ch. video transceiver, multimode 1310 nm/TX & 850 nm/RX, 1 fiber

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



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