

## ECT400H-R 4 CHANNEL VIDEO/8 BIT DIGITAL OPTICAL LINK WITH 0 - 5V SIGNAL LEVEL RANGE



Video
4
→

The ECT400H-R system provides high performance link for transmitting of four video signals 0 - 5 Vp-p over two or one fiber optic cables. The ECT400H-R system is designed to be used a remote transmission solution for radar and special purpose display applications. The link can be also used to transmit video gen-lock, sync, and component video signals over fiber optic cable. ECT400H-R utilizes high speed Analog-to-Digital and Digital-to-Analog Conversion with 8-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

400HE-VT-XYZ-R – 4 ch. transmitter  
 400HE-VR-XYZ-R – 4 ch. receiver  
 400HE-VX-XYZ-R – 2 ch. transceiver

- E = M for multimode 850nm
- = S for single mode receiver or 1310nm transmitter
- = SP for high power (0 dBm) 1310nm transmitter option
- = S(15) for single mode 1550nm transmitter
- = S(15)P for high power (0 dBm) 1550nm transmitter option
- X = C for card style\*
- = M for module style
- Y = 1, 2 for number of fibers
- Z = FC, ST for optical connectors

\*compatible with USR series chassis

### FEATURES

- ❑ Remote Transmission Solution for Radar Display Applications
- ❑ Composite and Component Video Transmission
- ❑ Video Gen-Lock and Sync Transmission
- ❑ 8 bit Uncompressed Digital Processing
- ❑ Four Channels per Single Card
- ❑ Multimode and Singlemode Versions
- ❑ Two or One Fiber Configurations
- ❑ 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	-30 dBm	-33 dBm
Optical Connectors	ST	FC, ST

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

Video Bandwidth @ 2 dB*	10 MHz
Video Input	75Ω balanced
Input/Output Signal Level	0 - 5 V @ 75 Ohm
Signal-to-Noise Ratio	56 dB**
Differential Gain	< 1.5 %
Differential Phase	< 1.5 °
Field Tilt	< 1 %
Luminance Non-Linearity	< 1.5%
Chrominance/ Luminance Delay	< 20ns
Power Requirements	11 – 15 V DC @ 0.5A
Operating Temperature	-20°C to +60°C (-4°F to +140°F)
Dimensions:	11.6"(295 mm) x 5.2"(133 mm) x x 1.05"(27 mm)

\*\* higher video bandwidth (up to 30 MHz) is available per special request

\*\*measured with ECT400H-R receiver as per RS-250C

