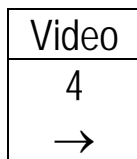


## ECT400-R 4 CHANNEL FM VIDEO OPTICAL LINK WITH 0 - 5 V SIGNAL LEVEL RANGE



The ECT400-R system provides high performance link for transmitting up to four unidirectional video signals 0 - 5 Vp-p over four or two fiber optic cables. The ECT400-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.

All ECT400-R transmitter/receiver cards are fully compatible with any ECT100-R type system allowing for mixed configurations when required.

The ECT400-R utilizes linear frequency modulation and very low noise transmission technology to assure high quality and stability.

### ORDERING INFORMATION

- 400E-VT-XYZ-R – transmitter
- 400E-VR-XYZ-R – receiver
- E = M for multimode
  - = M(13) for multimode 1300nm
  - = S for single mode 1310nm
  - = S(15) for single mode 1550nm
- X = M for module
  - = C for rack card\*
- Y = 4 or 2 for number of fibers
- Z = ST or FC connectors

\*compatible with USR type chassis

### FEATURES

- ❑ Remote Transmission Solution for Radar Display Applications
- ❑ Composite and Component Video Transmission
- ❑ Video Gen-Lock and Sync Transmission
- ❑ Balanced Video Inputs
- ❑ 4 Channels per Single Card
- ❑ Multimode and Singlemode Versions
- ❑ Four or Two Fiber Configurations
- ❑ Power and Signal Status Indicators

| Operating Wavelength   | 850 nm    | 1300 nm | 1310/1550nm |
|------------------------|-----------|---------|-------------|
| Optical Core Diameter  | 50μ/62.5μ |         | 8/10μ       |
| Optical Power Source   | VCSEL     | LED     | Laser       |
| Optical Power Output*  | -8 dBm    | -14 dBm | -8 dBm      |
| Receiver Sensitivity   | -31 dBm   | -33 dBm | -33 dBm     |
| Receiver Sensitivity** | -29 dBm   | -31 dBm | -31 dBm     |
| Optical Connectors     | ST        |         | FC, ST      |

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

\*\* for two fiber configuration.

|                                      |  |
|--------------------------------------|--|
| System Bandwidth @1dB                | 16 mHz                                   |
| Signal Input Impedance (transmitter) | 75 Ohm balanced                          |
| Input/Output Signal Level            | 0 - 5 Vp-p @ 75 Ohm                      |
| Signal-to-Noise Ratio*               | 65 dB                                    |
| Differential Gain                    | < 5 %                                    |
| Differential Phase                   | < 3°                                     |
| Sync Tilt (standard window signal)   | < 1.0 %                                  |
| Power Requirements (transmitter)     | 12VDC/0.4A                               |
| Power Requirements (receiver)        | 12VDC/0.6A                               |
| Operating Temperature                | -30°C to +70°C (-22°F to +158°F)         |
| Dimensions                           | 11.6"(270mm) x 5.2"(132mm) x 1.05"(27mm) |

\* measured as per RS-250C @ 1km, 62.5μ cable

