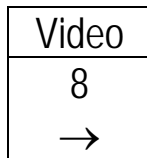


## ECT5800 8 CHANNEL VIDEO/10 BIT DIGITAL LINK



The ECT5800 system provides a high performance link for transmitting up to eight unidirectional composite video signals over a single fiber optic cable. The system features broadcast video quality providing 10-bit video processing with uncompressed digital transmission. ECT5800 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.

### ORDERING INFORMATION

5800F-VT-XYZ – 8 channel transmitter  
 5800F-VR-XYZ – 8 channel receiver

- F = M for multimode 850nm/2 fiber
- = M(13) for multimode 1310nm/2 fiber or 850 & 1310 nm/1 fiber
- = S for singlemode 1310nm/2 fiber
- = S(15) for singlemode 1550nm/2 fiber or 1310 & 1550 nm/1 fiber
- X = C for card style\*
- = M for module style
- Y = 1 or 2 – number of fibers
- Z = ST, FC, SC optical connectors

\*compatible with USR series chassis

### FEATURES

- ❑ Broadcast Video Quality with 10-bit Uncompressed Video Processing
- ❑ Supports NTSC, PAL, SECAM and Component (YUV, RGB, Y/C) Video Formats
- ❑ 8 Composite Video Channels per Single Fiber with WDM
- ❑ Input Video Cable Equalization
- ❑ Multifunction Signal Status Indicators

| Fiber Type              | Multimode        | Singlemode       |
|-------------------------|------------------|------------------|
| Optical Core Diameter   | 50μ or 62.5μ     | 8/10μ            |
| Operating Wavelength    | 850 and 1310 nm  | 1310 and 1550 nm |
| Optical Power Source    | Laser            | Laser            |
| Optical Power Output*   | - 3 dBm @ 850 nm | - 3 dBm*         |
| Receiver Sensitivity    | -20 dBm @ 850 nm | -22 dBm          |
| Optical Connectors      | ST or SC         | ST, FC or SC     |
| Maximum Length of Fiber | 1 km             | 20 km            |

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

|                          |   |
|--------------------------|---|
| Video Bandwidth @1dB     | 7.5 MHz                                 |
| Video Input              | 75 Ohm balanced                         |
| Video Output             | 75 Ohm unbalanced                       |
| Video Input Level        | NTSC: 1.0 V p-p, PAL: 1.3 V p-p         |
| Video Equalization Range | Up to 300 m                             |
| 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    | < 20ns                                  |
| Delay                    |   |
| K-2T Factor              | < 1.0%                                  |
| Power Requirements       | 12 V DC @ 1.0 A                         |
| Operating Temperature    | -30°C to +70°C (-22°F to +158°F)        |
| Dimensions               | 11.6"(295mm) x 5.2"(133mm) x 2.0"(51mm) |

\* measured with ECT5800 receiver as per RS-250C

