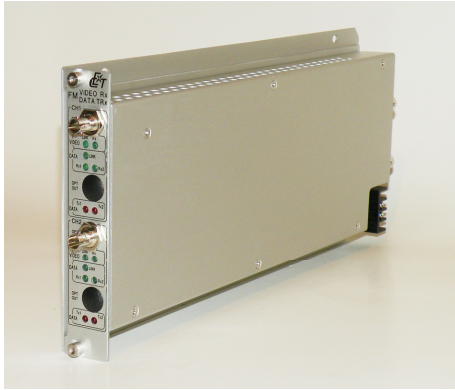


**ECT233H DUAL VIDEO WITH FOUR DUPLEX RS-232 DATA CHANNELS DIGITAL OPTICAL RECEIVER**



|       |      |
|-------|------|
| Video | Data |
| 2     | 4    |
| →     | ↔    |

ECT233H system provides high performance link for receiving dual unidirectional composite video channel along with four bi-directional RS-232 data channels over two or four fibers. The system features broadcast video quality providing 10-bit video processing with uncompressed digital transmission. ECT233H utilizes high speed analog-to-digital and digital-to-analog conversion with 10-bit resolution, digital signal processing, time division multiplexing, fibre optic transmission at a data rate of up to 1400 Mbit/sec and high speed RS-232 data transfer capability.

**ORDERING INFORMATION**

233HE-VR/DX-CYZ – 2 x Video RX/data TRX card  
 233HE-VR/DX-MYZ – 2 x Video RX/data TRX module  
 RX – receiver, TRX – transceiver

- E** = **M** for multimode 850nm/TX
- = **S** for single mode 1310nm/TX
- = **S(15)** for single mode 1550nm/TX
- Y** = **2** for dual fiber system
- = **4** for four fiber system
- Z** = **ST, SC, FC** for optical connectors

**FEATURES**

- ❑ Broadcast Video Quality
- ❑ Compatible with NTSC, PAL and SECAM Transmission
- ❑ High Speed Duplex RS-232 Data Ports
- ❑ Multimode and Singlemode Versions
- ❑ Power and Signal Status Indicators

|                               |           |             |             |
|-------------------------------|-----------|-------------|-------------|
| <b>Operating Wavelength</b>   | 850 nm    | 850/1300 nm | 1310/1550nm |
| <b>Optical Core Diameter</b>  | 50µ/62.5µ |             | 8/10µ       |
| <b>Optical Power Source</b>   | VCSEL     | LED         | Laser       |
| <b>Optical Power Output*</b>  | -4 dBm    | -14 dBm     | -4 dBm      |
| <b>Receiver Sensitivity</b>   | -30 dBm   |             | -33 dBm     |
| <b>Receiver Sensitivity**</b> | -28 dBm   |             | -31 dBm     |
| <b>Optical Connectors</b>     | ST, SC    |             | ST, SC, FC  |

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

\*\* for one-fiber configuration with internal WDM.

|                                    |   |
|------------------------------------|---|
| <b>Video Bandwidth @ 2 dB*</b>     | 10 MHz                                      |
| <b>Video Conversion Resolution</b> | 10 bit                                      |
| <b>Video Output</b>                | 75Ω unbalanced                              |
| <b>Video Output 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>Data Interface</b>              | RS-232                                      |
| <b>Data Rate</b>                   | Up to 2.5 Mb/sec                            |
| <b>Bit Error Rate</b>              | 10 <sup>-9</sup>                            |
| <b>Power Requirements</b>          | 11 - 15 VDC @ 600 mA                        |
| <b>Operating Temperature</b>       | -30°C to +70°C (-22°F to +158°F)            |
| <b>Dimensions (w/o connectors)</b> | 11.6"(295 mm) x 5.2"(132 mm) x 1.05"(27 mm) |

\* higher video bandwidth (up to 26 MHz) is available per special request;

\*\* measured as per RS-250C @ 4km, 8-9µ cable.

