

## ECT255H DUAL VIDEO WITH TWO RS-485 DATA CHANNELS DIGITAL OPTICAL RECEIVER



Video	Data
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ECT255H system provides high performance link for receiving dual unidirectional composite video channel along with two bi-directional RS-485 data channels over two or four fibers. The system features broadcast video quality providing 10-bit video processing with uncompressed digital transmission. ECT255H 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-485 data transfer capability.

### ORDERING INFORMATION

255HE-VR/DXN-CYZ – 2 x Video RX/data TRX card  
 255HE-VR/DXN-MYZ – 2 x Video Rx/data TRX module  
 RX – receiver, TRX – transceiver

- E** = **M** for multimode 850 nm/TX  
 = **S** for single mode 1310 nm/TX  
 = **S(15)** for single mode 1550 nm/TX
- N** = **2, 4** for number of wires
- Y** = **2** for one fiber system (1 fiber per channel)  
 = **4** for dual fiber system (2 fiber per channel)
- Z** = **ST, SC, FC** for optical connectors

### FEATURES

- ❑ Broadcast Video Quality
- ❑ Compatible with NTSC, PAL and SECAM Transmission
- ❑ High Speed RS-485 Data Ports
- ❑ Two and Four Wire Interface
- ❑ Multimode and Singlemode Versions
- ❑ Signal Status Indicators

Operating Wavelength	850 nm	850/1300 nm	1310/1550nm
Optical Core Diameter	50µ/62.5µ		8/10µ
Optical Power Source	VCSEL	LED	Laser
Optical Power Output*	-3 dBm	-14 dBm	-3 dBm
Receiver Sensitivity	-30 dBm		-33 dBm
Receiver Sensitivity**	-28 dBm		-31 dBm
Optical Connectors	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>	75 Ohm 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-485
<b>Data Rate</b>	Up to 1 Mb/sec
<b>Bit Error Rate</b>	10 <sup>-9</sup>
<b>Power Requirements</b>	11 - 15 VDC @ 600 mA
<b>Operating Temperature</b>	-20°C to +60°C (-4°F to +140°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 30 MHz) is available per special request;

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

