

# ECT244H DUAL VIDEO WITH FOUR DUPLEX RS-422 DATA CHANNELS DIGITAL VIDEO RECEIVER



Video	Data
2	4
→	↔

ECT244H system provides high performance link for receiving dual unidirectional composite video channel along with four bi-directional RS-422 data channels over two or four fibers. The system features broadcast video quality providing 10-bit video processing with uncompressed digital transmission. ECT244H 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-422 data transfer capability.

## ORDERING INFORMATION

244HE-VR/DXN-CYZ – 2 x Video Rx/data TRX card  
 244HE-VR/DXN-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

**N** = **5, 10\*** for data rate maximum in Mb/sec\*\*  
**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

\*for one data channel only

\*\*specified by customer

## FEATURES

- ❑ Broadcast Video Quality
- ❑ Compatible with NTSC, PAL and SECAM Transmission
- ❑ High Speed Duplex RS-422 Data Ports
- ❑ Multimode and Singlemode Versions
- ❑ Power and 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-422
<b>Data Rate</b>	DC – 2.5 Mb/sec DC - 5 Mb/sec, 10 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;

\*\*\* available per special request; 10 Mb/sec - for one data channel only.

