

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.

Video Bandwidth @ 2 dB*	10 MHz
Video Conversion Resolution	10 bit
Video Output	75 Ohm unbalanced
Video Output Level	NTSC: 1.0 V p-p, PAL: 1.3 V p-p
Signal-to-Noise Ratio**	64 dB
Differential Gain	< 0.5 %
Differential Phase	< 0.5 °
Field Tilt	< 0.5 %
Luminance Non-Linearity	< 0.5 %
Data Interface	RS-422
Data Rate	DC – 2.5 Mb/sec DC - 5 Mb/sec, 10 Mb/sec***
Bit Error Rate	10 ⁻⁹
Power Requirements	11 - 15 VDC @ 600 mA
Operating Temperature	-20°C to +60°C (-4°F to +140°F)
Dimensions	11.6"(295 mm) x 5.2"(132 mm) x 1.05"(27 mm)
(w/o connectors)	

* higher video bandwidth (up to 30 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.

