

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



Video	Data
2	2
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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 2 fiber or 850nm/4 fiber
- = S for single mode 2 fiber or 1310nm/4 fiber
- = S(15) for single mode 1550nm/4 fiber
- 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, 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	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	-31 dBm	-34 dBm	-34 dBm
Receiver Sensitivity**	-29 dBm	-32 dBm	-32 dBm
Optical Connectors	ST		FC, ST

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

** for one-fiber configuration with internal WDM.

Video Bandwidth @1dB*	7 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-485
Data Rate	Up to 1.6 Mb/sec
Bit Error Rate	10 ⁻⁹
Power Requirements	11 - 14 VDC @ 600 mA
Operating Temperature	-30°C to +70°C (-22°F to +158°F)
Dimensions (w/o connectors)	11.6"(270mm) x 5.2"(132mm) x 1.05"(27mm)
Dimensions (with connectors)	12.5"(318mm) x 5.2"(133mm) x 1.06"(27mm)

* higher video bandwidth (up to 25 MHz) is available per special request;

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

