

## ECT299H DUAL VIDEO WITH FOUR DUPLEX CONTACT CLOSURE DATA CHANNELS DIGITAL OPTICAL RECEIVER



Video	Data
2	4
→	↔

ECT299H system provides high performance link for receiving dual unidirectional composite video channel along with four bi-directional contact closure data channels over two or four fibers. The system features broadcast video quality providing 10-bit video processing with uncompressed digital transmission. ECT299H 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 contact closure data transfer capability.

### ORDERING INFORMATION

299HE-VR/DX-CYZ – 2 x Video Rx/cont. closure data TRX card  
 299HE-VR/DX-MYZ – 2 x Video Rx/cont. closure 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

**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 Contact Closure 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 Input	Dry Contact, TTL/CMOS
Data Interface Output	Dry Contact @ load 120VAC/24W or 30VDC/1A
Switching Time	Up to 5 msec
Power Requirements	11 - 15 VDC @ 600 mA
Operating Temperature	-30°C to +70°C (-22°F to +158°F)
Dimensions (w/o connectors)	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.



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