

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 2 fiber or 850nm/4 fiber
- = S for single mode 2 fiber or 1310nm/4 fiber
- = S(15) for single mode 1550nm/4 fiber
- 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 Contact Closure Data Ports
- ❑ Multimode and Singlemode Versions
- ❑ Power and 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 Input	Dry Contact, TTL/CMOS
Data Interface Output	Dry Contact @ load 120VAC/24W or 30VDC/1A
Switching Time	Up to 4 msec
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.

