

ECT200 SERIES

ECT299 2 CHANNEL FM VIDEO RECEIVER WITH 4 DUPLEX CONTACT CLOSURE DATA CHANNELS



Video	Data
2	4
→	↔

ECT299 system provides high performance link for receiving of two unidirectional composite video channels along with four bi-directional contact closure data channels over two or four fibers. The system features near broadcast video quality and high speed contact closure data transfer capability. ECT299 utilizes linear frequency demodulation and very low noise reception technology to assure high quality and stability.

ORDERING INFORMATION

299E-VR/DX-CYZ – video Rx/contact closure data TRx card
 299E-VR/DX-MYZ – video Rx/ contact closure data TRx module
 Tx - transmitter, Rx – receiver, TRx - transceiver

E = M for multimode
 = S for singlemode 1310nm
 = S(15) for singlemode 1550nm

Y = 2 for single fiber system (1 fiber per channel)
 = 4 for dual fiber system (2 fibers per channel)

Z = ST, FC, SC for optical connectors

FEATURES

- ❑ Near 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

Fiber Type	Multimode		Singlemode
	50μ	62.5μ	8/10μ
Operating Wavelength	850/1310 nm		1310/1550nm
Optical Power Source	LED		Laser
Optical Power Output*	-17 dBm -14 dBm		-8 dBm
Receiver Sensitivity*	-32 dBm		-34 dBm
Attenuation Budget*	15 dB 18 dB		26 dB
Receiver Sensitivity**	-30 dBm		-32 dBm
Attenuation Budget**	13 dB 16 dB		24 dB
Optical Connectors	ST		FC, ST, SC

* with +/- 1 dBm variation

** for one-fiber configuration with internal WDM

Video Bandwidth @1dB	7 MHz
Video Output	75Ω unbalanced
Video Output Level	NTSC: 1.0 V p-p, PAL: 1.3 V p-p
Signal-to-Noise Ratio	70 dB*
Differential Gain	< 1.5 %
Differential Phase	< 1.5 °
Field Tilt	< 0.5 %
Luminance Non-Linearity	< 1.5%
Chrominance/	< 30ns
Luminance Delay	
Data Interface	Contact Closure
Bit Error Rate	10 ⁻⁹
Power Requirements	12 VAC/VDC @ 650mA
Operating Temperature	-30°C to +65°C (-4°F to +149°F)
Module Dimensions	11.6"(270mm) x 5.2"(132mm) x 1.05"(27mm)

* measured as per RS-250C @ 1km, 62.5μ cable



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