

ECT100 SERIES

ECT199H ONE VIDEO WITH TWO DUPLEX CONTACT CLOSURE DATA CHANNELS DIGITAL OPTICAL LINK



Video	Data
1	2
→	↔

ECT199H system provides high performance link for transmitting unidirectional composite video channel along with two bi-directional contact closure data channels over one or two fibers. The system features broadcast video quality providing 10-bit video processing with uncompressed digital transmission. ECT199H 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

199HE-VT/DX-MYZ – video Tx/cont. closure data TRx module
 199HE-VR/DX-MYZ – video Rx/cont. closure data TRx module
 Tx - transmitter, Rx – receiver, TRx - transceiver

E = M for multimode 1 fiber or 850nm/2 fiber
 = S for single mode 1 fiber or 1310nm/2 fiber
 = S(15) for single mode 1550nm/2 fiber

Y = 1 for one fiber system
 = 2 for dual fiber system

Z = ST, FC, SC 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 Video	1300 nm Data	1310/1550nm Video/Data
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, SC		FC, ST, SC

* 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 Input	75Ω balanced
Video Output	75Ω unbalanced
Video Input/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 @ 350mA 21 - 27VAC @ 250mA
Operating Temperature	-30°C to +70°C (-22°F to +158°F)
Module Dimensions	6.7"(170mm) x 4.95"(126mm) x 1.32"(34mm)

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

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



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