

ECT255

DUAL VIDEO WITH TWO RS-485 DATA CHANNELS FM OPTICAL RECEIVER



Video	Data
2	2
→	↔

ECT255 system provides high performance link for receiving of two unidirectional composite video channels along with two bi-directional RS-485 data channels over two or four fibers. The system features CCTV professional video quality and high speed RS-485 data transfer capability. ECT255 utilizes linear frequency demodulation and very low noise reception technology to assure high quality and stability.

ORDERING INFORMATION

255E-VR/DXN-CYZ – 2 x Video Rx/RS-485 data TRx card
 255E-VR/DXN-MYZ – 2 x Video Rx/RS-485 data TRx module
 Rx – receiver, TRx - transceiver

- E = M for multimode 2 fiber or 850nm/4 fiber
- = M(13) for multimode 1300nm/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 single fiber system (1 fiber per channel)
- = 4 for dual fiber system (2 fiber per channel)
- Z = ST, FC for optical connectors

FEATURES

- ❑ CCTV Professional 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*	-8 dBm	-14 dBm	-8 dBm
Receiver Sensitivity	-32 dBm	-34 dBm	-34 dBm
Receiver Sensitivity**	-30 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 Output	75 Ohm unbalanced
Video Output Level	NTSC: 1.0 V p-p, PAL: 1.3 V p-p
Signal-to-Noise Ratio	62 dB*
Differential Gain	< 3 %
Differential Phase	< 3 °
Field Tilt	< 2 %
Luminance Non-Linearity	< 3 %
Data Interface	RS-485
Data Rate	Up to 200 Kb/s
Bit Error Rate	10 ⁻⁹
Power Requirements	11 - 14 VDC @ 650mA
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)

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

