

ECT1TR/RT-L ONE VIDEO AND TWO DUPLEX DATA CHANNELS FM OPTICAL LINK WITH UP TO 136 km/85 mi RANGE



Video	Data
1	2
→	↔

The ECT1TR/RT-L system provides high performance link for transmitting unidirectional composite video channel along with two bi-directional data channels over one or two fibers. The system features CCTV professional video quality and high speed data transfer capability.

All ECT1TR/RT-L video transmitter/data transceiver units are fully compatible with ECT2RT-L type video receiver/data transceiver units allowing for mixed configurations when required.

The ECT1TR/RT-L system utilizes linear frequency modulation and very low noise transmission technology to assure high quality and stability.

FEATURES

- ❑ CCTV Professional Video Quality
- ❑ Balanced Video Input
- ❑ Compatible with NTSC, PAL and SECAM Transmission
- ❑ High Speed Duplex Multi-Format Data Ports
- ❑ Operating Range Up to 136 km / 85 miles
- ❑ Power and Signal Status Indicators

Configuration	2 Fiber	1 Fiber
Operating Wavelength	1550 nm	1530/1570 nm
Optical Core Diameter	8/10µ	
Optical Power Source	DFB Laser	
Optical Power Output	0 (+/- 0.5) dBm	
Video/Data Receiver Sensitivity	-44 dBm	-43 dBm
Optical Connectors	FC, ST, SC	

Video Bandwidth @ 3dB	7 MHz
Video Input	75 Ohm balanced
Video Output	75 Ohm unbalanced
Video Input/Output Level	NTSC: 1.0 V p., PAL: 1.3 V p. (+/-10%)
Signal-to-Noise Ratio	62 dB*
Differential Gain	< 4 %
Differential Phase	< 4 °
Field Tilt	< 2 %
Luminance Non-Linearity	< 4 %
Data Interface	TTL/CMOS
Data Rate	Up to 200 Kb/s
Bit Error Rate	10 ⁻⁹
Power Requirements	11 - 14 VAC/VDC @ 300mA 21 - 27 VAC @ 200mA
Operating Temperature	-30°C to +85°C (-22°F to +185°F)
Module Dimensions	6.7"(170mm) x 4.95"(126mm) x 1.32"(34mm)

* measured as per RS-250C @ 1km optical cable



ECT100 SERIES

ORDERING INFORMATION

1TRS-VT/DX-M2Z-L – 1 ch. video, 2 ch. data transmitter 1550 nm & 2 ch. data receiver 1260 – 1620 nm / 2 fiber

1RTS-VR/DX-M2Z-L – 1 ch. video, 2 ch. data receiver 1260 – 1620 nm & 2 ch. data transmitter 1550 nm / 2 fiber

1TRS-VT/DX-M1Z-L – 1 ch. video, 2 ch. data transmitter 1530 nm & 2 ch. data receiver 1570 nm / 1 fiber

1RTS-VR/DX-M1Z-L – 1 ch. video, 2 ch. data receiver 1530 nm & 2 ch. data transmitter 1570 nm / 1 fiber

T = Transmitting data interface: 1 – for TTL, 3 – for RS-232, 4 – for RS-422, 5 – for RS-485, 9 – for Contact Closure

R = Receiving data interface: 1 – for TTL, 3 – for RS-232, 4 – for RS-422, 5 – for RS-485, 9 – for Contact Closure

Z = FC, SC, ST - for optical connectors

Note: The specifications are subject to change without notice.



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