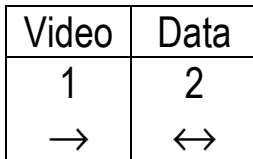


ECT111

ONE VIDEO WITH TWO DUPLEX TTL/CMOS DATA CHANNELS FM OPTICAL LINK



ECT111 system provides high performance link for transmitting unidirectional composite video channel along with two bi-directional TTL/CMOS data channels over one or two fibers. The system features CCTV professional video quality and high speed TTL/CMOS data transfer capability. ECT111 system utilizes linear frequency modulation and very low noise transmission technology to assure high quality and stability.

ORDERING INFORMATION

111E-VT/DX-MYZ – video TX/data TRX module  
 111E-VR/DX-MYZ – video RX/data TRX module  
 TX- transmitter, RX – receiver, TRX - transceiver

E = M for multimode 850nm/TX  
 = M(13) for multimode 1300nm/TX  
 = S for single mode 1310nm/TX  
 = S(15) for single mode 1550nm/TX

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

Z = ST, FC, SC for optical connectors

FEATURES

- ❑ CCTV Professional Video Quality
- ❑ Balanced Video Input
- ❑ Compatible with NTSC, PAL and SECAM Transmission
- ❑ High Speed Duplex TTL/CMOS Data Ports
- ❑ Multimode and Singlemode Versions
- ❑ Power and Signal Status Indicators

Operating Wavelength	850 nm	1300 nm	1310/1550 nm
Optical Core Diameter	50µ/62.5µ		8/10µ
Optical Power Source	VCSEL	LED	Laser
Optical Power Output*	-7 dBm	-14 dBm	-8 dBm
Video Receiver Sensitivity	-30 dBm	-34 dBm	-36 dBm
Video Receiver Sensitivity**	-29 dBm	-33 dBm	-35 dBm
Data Receiver Sensitivity	-32 dBm	-35 dBm	-37 dBm
Data Receiver Sensitivity**	-31 dBm	-34 dBm	-36 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 @ 3 dB	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 <sup>-9</sup>
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, 62.5µ cable

Note: The specifications are subject to change without notice.



Elcommtech Corp. 2620 Ocean Parkway, Suite 4H, Brooklyn, NY 11235  
 Tel (718) 743-2869 • Fax (718)648-3642 • E-mail [sales@elcommtech.com](mailto:sales@elcommtech.com)  
<http://www.elcommtech.com>