ECT133

ONE CHANNEL VIDEO WITH TWO DUPLEX RS-232 DATA CHANNELS OPTICAL LINK



Video	Data
1	2
\rightarrow	\leftrightarrow

ECT133 system provides high performance link for transmitting unidirectional composite video channel along with two bi-directional RS-232 data channels over one or two fibers. The system features CCTV professional video quality and high speed RS-232 data transfer capability.

ECT133 utilizes linear frequency modulation and very low noise transmission technology to assure high quality and stability.

ORDERING INFORMATION

133**E**-VT/DX-M**YZ** – video TX/RS-232 data TRX module 133**E**-VR/DX-M**YZ** – video RX/RS-232 data TRX module TX - transmitter, RX – receiver, TRX - transceiver

- E = M for multimode 850 nm/TX
 - = M(13) for multimode 1300 nm/TX
 - = **S** for single mode 1310 nm/TX
 - = S(15) for single mode 1550 nm/TX
- Y = 1 for single fiber system = 2 for dual fiber system
- Z = ST, FC, SC for optical connectors

Note: The specifications are subject to change without notice.

FEATURES

- CCTV Professional Video Quality
- Balanced Video Input
- Compatible with NTSC, PAL and SECAM Transmission
- □ High Speed Duplex RS-232 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 & Data Receiver	-31 dBm	-33 dBm	-35 dBm
Sensitivity Video & Data Receiver	-30 dBm	-32 dBm	-34 dBm
Sensitivity** Optical Connectors	ST,	SC	FC, ST, SC

* with variation +/- 2 dBm @ -20 °C to +70 °C and +/- 3 dBm @ -30 °C to +85 °C; higher power laser sources are available per special request;

** for one-fiber configuration with internal WDM

Video Bandwidth @ 3 dB	7 MHz
Video Input Impedance	75 Ohm balanced
Video Output Impedance	75 Ohm unbalanced
Video Input / Output Level	NTSC: 1.0 Vp., PAL: 1.3 Vp.(+1/-3 dB)
Video Input Overload	Up to 3 Vp.
Signal-to-Noise Ratio	62 dB*
Diff. Gain (-20°C to +70°C)	< 4 %
Diff. Gain (-30°C to +85°C)	< 7 %
Diff. Phase (-20°C to +70°C)	< 4 °
	<7 °
Diff. Phase (-30°C to +85°C)	
Field Tilt	< 2 %
Luminance Non-Linearity	< 4 %
(-20°C to +70°C)	
Luminance Non-Linearity	< 7 %
(-30°C to +85°C)	
Data Interface	RS-422
Data Rate	Up to 200 Kb/s
Bit Error Rate	10-9
Power Requirements	11 – 14 VDC @ 300mA
	21 - 27VAC @ 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 @ 100m for multimode and 1km for single mode optical cable.



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