

ECT133H

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



Video	Data
1	2
→	↔

ECT133H 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 broadcast video quality providing 10-bit video processing with uncompressed digital transmission. ECT133H 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 RS-232 data transfer capability.

ORDERING INFORMATION

133HE-VT/DX-MYZ – video TX/data TRX module
 133HE-VR/DX-MYZ – video RX/data TRX module
 TX – transmitter, RX – receiver, TRX – transceiver

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

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 Duplex RS-232 Data Ports
- ❑ Multimode and Singlemode Versions
- ❑ Power and Signal Status Indicators

Operating Wavelength	850 nm	850/1300 nm	1310/1550 nm
Optical Core Diameter	50μ/62.5μ		8/10μ
Optical Power Source	VCSEL	LED	Laser
Optical Power Output*	-3 dBm	-14 dBm	-3 dBm
Video Receiver Sensitivity	-30 dBm		-33 dBm
Video Receiver Sensitivity**	-28 dBm		-31 dBm
Data Receiver Sensitivity	-33 dBm	-36 dBm	-36 dBm
Data Receiver Sensitivity**	-31 dBm	-34 dBm	-34 dBm
Optical Connectors	ST, SC		ST, SC, FC

* with +/- 1 dBm variation; higher power laser sources are available per special request;

** for one-fiber configuration with internal WDM.

Video Bandwidth @ 2 dB*	10 MHz
Video Conversion Resolution	10 bit
Video Input	75 Ohm balanced
Video Output	75 Ohm 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	RS-232
Data Rate	Up to 2.5 Mb/sec
Bit Error Rate	10 ⁻⁹
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 26 MHz) is available per special request;

** measured as per RS-250C @ 1km for single mode optical cable.

Note: The specifications are subject to change without notice.



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