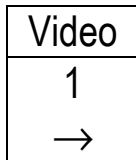


ECT100H-R DIGITAL VIDEO OPTICAL LINK WITH 0 - 5 V SIGNAL LEVEL RANGE



The ECT100H-R system provides high performance link for unidirectional transmitting of video signal 0 - 5 V over a fiber optic cable. The ECT100H-R system is designed to be used a remote transmission solution for radar and special purpose display applications. The system can be also used to transmit video gen-lock, sync, and component video signals over a fiber optic cable. The system features broadcast video quality providing 10-bit video processing with uncompressed digital transmission. The ECT100H-R 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.

FEATURES

- Broadcast Quality with 10-bit Uncompressed Signal Processing
- Remote Transmission Solution for Radar Display Applications
- Composite and Component Video Transmission
- Video Gen-Lock and Sync Transmission
- Universal Balanced/Unbalanced Video Input
- Multimode and Single Mode Versions
- High Accuracy In/Out Signal Transmission with No Adjustments
- Power and Signal Status Indicators

Operating Wavelength	850 nm	1310/1550 nm
Optical Core Diameter	50μ or 62.5μ	8/10μ
Optical Power Source	Laser/VCSEL	Laser
Optical Power Output*	-3 dBm	-3 dBm
Receiver Sensitivity	-30 dBm	-33 dBm
Optical Connectors	ST, SC	FC, ST, SC

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

Video Bandwidth @ 2 dB	10 MHz or 26 MHz (optional)
Video Conversion Resolution	10 bit
Signal Input Impedance (transmitter)	75 Ohm
Signal Output Impedance (receiver)	universal: balanced/unbalanced 75 Ohm, unbalanced
Input/Output Signal Level	0 - 5 V @ 75 Ohm
Signal-to-Noise Ratio*	63 dB
Differential Gain	< 0.5 %
Differential Phase	< 0.5 °
Luminance Non-Linearity	< 0.5 %
Sync Tilt (standard window signal)	< 0.5 %
Power Requirements: Transmitter	11 - 14 VDC @ 160mA 21 - 27 VAC @ 100mA
Receiver	12 - 13 VDC @ 300mA, regulated
Operating Temperature	-30°C to +65°C (-22°F to +149°F)
Module Dimensions	4.17"(106mm) x 3.65"(93mm) x 1.1"(28mm)

* measured as per RS-250C @ 4km, 8-9μ cable



ORDERING INFORMATION

100HE-VTU-M1Z-R – Video transmitter module

100HE-VRU-M1Z-R – Video receiver module

- E** = **M** for multimode 850 nm
- = **S** for single mode receiver or 1310 nm transmitter
- = **SP** for single mode high power (≥ 0 dBm) 1310 nm transmitter
- = **SPD** for single mode high power (≥ 0 dBm) 1310 nm / DFB transmitter
- = **S(15)** for single mode 1550 nm transmitter
- = **S(15)P** for single mode high power (≥ 0 dBm) 1550 nm transmitter
- = **S(15)D** for single mode 1550 nm / DFB transmitter
- = **S(15)PD** for high power (≥ 0 dBm) 1550 nm / DFB transmitter
- = **S(W)** for single mode CWDM / DFB transmitter
- = **S(W)P** for high power (≥ 0 dBm) CWDM / DFB transmitter

CWDM wavelength (**W**): **14.7**(1470 nm), **14.9**(1490 nm), **15.1**(1510 nm), **15.3**(1530 nm), **15.5**(1550 nm), **15.7**(1570nm),
15.9(1590 nm), **16.1**(1610 nm).

U = **26** for video bandwidth 26 MHz

Z = **FC, ST, SC** for optical connectors

Note: The specifications are subject to change without notice.



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