



ECT100H system provides high performance link for transmitting unidirectional composite video signal over a fiber optic cable. The system features broadcast video quality providing 10-bit video processing with uncompressed digital transmission. ECT100H 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 Video Quality
- ❑ Compatible with NTSC, PAL and SECAM Transmission
- ❑ Multimode and Singlemode Versions
- ❑ 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	FC, ST

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

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 %
Chrominance/	
Luminance Delay	< 20ns
Power Requirements:	
Transmitter	11 - 14 VDC @ 160mA 21 - 27 VAC @ 100mA
Receiver	11 - 14 VDC @ 220mA 21 - 27 VAC @ 150mA
Operating Temperature	-30°C to +65°C (-22°F to +149°F)
Module Dimensions	3.65"(93mm) x 4.17"(106mm) x 1.1"(28mm)

* higher video bandwidth (up to 30 MHz) is available per special request

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



ORDERING INFORMATION

100HE-VT-M1Z – Video transmitter module

100HE-VR-M1Z – 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).

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

Note: The specifications are subject to change without notice.



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