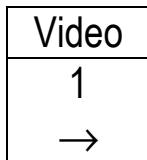


ECT100-R FM VIDEO OPTICAL LINK WITH 0 - 5 V SIGNAL LEVEL RANGE



The ECT100-R system provides high performance link for unidirectional transmission of video signal 0 - 5 V over a fiber optic cable. The ECT100-R system is designed to be used a remote transmission solution for radar and special purpose display applications. The link can be also used to transmit video gen-lock, sync, and component video signals over fiber optic cable.

The ECT100-R FM transmitter/receiver are fully compatible with ECT400-R type systems allowing for mixed configurations when required.

The ECT100-R utilizes linear frequency modulation and very low noise transmission technology to assure high quality and stability.

FEATURES

- ❑ Remote Transmission Solution for Radar Display Applications
- ❑ Composite and Component Video Transmission
- ❑ Video Gen-Lock and Sync Transmission
- ❑ Balanced 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 | 1300 nm | 1310/1550nm |
|-----------------------|-----------|---------|-------------|
| Optical Core Diameter | 50μ/62.5μ | | 8/10μ |
| Optical Power Source | VCSEL | LED | Laser |
| Optical Power Output* | -3 dBm | -14 dBm | -3 dBm |
| Receiver Sensitivity | -30 dBm | -34 dBm | -36 dBm |
| Optical Connectors | ST, SC | | FC, ST, SC |

* with +/- 1 dBm variation.

| | |
|--|---|
| System Bandwidth @ 2 dB | 10 Hz - 16 MHz |
| Signal Input Impedance (transmitter) | 75 Ohm |
| Input/Output Signal Level | universal: balanced/unbalanced |
| Signal-to-Noise Ratio* | 0 - 5 V @ 75 Ohm |
| Differential Gain* | 64 dB |
| Differential Phase* | < 4% |
| Luminance Non-Linearity | < 4° |
| Sync Tilt (standard window signal) | < 4% |
| Power Requirements (transmitter) | < 1% |
| Power Requirements (receiver) | 11 - 14 VDC @ 150mA, 21 - 27 VAC @ 100mA |
| Operating Temperature | 12 - 13 VDC @ 250mA, regulated |
| Tx Module Dimensions (without connectors) | -30°C to +70°C (-22°F to +158°F) |
| Rx Module Dimensions (without connectors) | 3.20"(81mm) x 3.72"(95mm) x 1.1"(28mm) |
| | 4.17"(106mm) x 3.65"(93mm) x 1.1"(28mm) |

*measured as per RS-250C @ 100m for multimode and 1km for single mode optical cable.



ORDERING INFORMATION

100E-VT-M1Z-R – Video transmitter module

100E-VR-M1Z-R – Video receiver module

- E = **M** for multimode 850 nm
- = **M(13)** for multimode 1300 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.



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