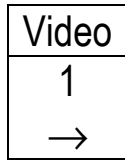
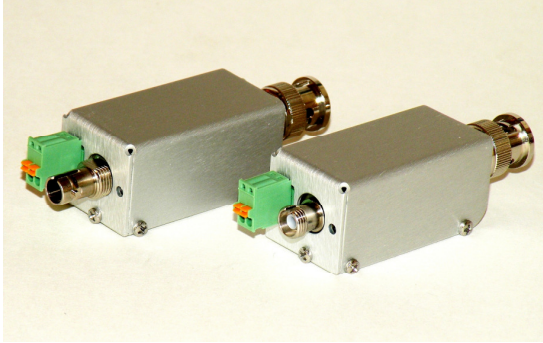


## ECT100-MM-R

## FM VIDEO MINI TRANSMITTER MODULE WITH 0 - 5 V INPUT SIGNAL LEVEL RANGE



The ECT100-MM-R FM Video Mini Transmitter provides high performance link for unidirectional transmission of video signal

0 - 5 V over a fiber optic cable. The unit is designed to be used a remote transmission solution for radar and special purpose display applications.

The ECT100-MM-R FM Video Mini Transmitter can be also used to transmit video gen-lock, sync, and component video signals over fiber optic cable.

The ECT100-MM-R FM Mini Transmitter is fully compatible with ECT100-R and ECT400-R type receiving systems allowing for mixed configurations when required.

The ECT100-MM-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
- ❑ Isolates EMI, RFI, Ground Loops
- ❑ Multimode and Singlemode Versions
- ❑ Power/Signal Status Indicator
- ❑ Compatible with 6 - 12 VDC Power Sources

<b>Operating Wavelength</b>	850 nm	1300 nm	1310/1550nm
<b>Optical Core Diameter</b>	50µ/62.5µ		8/10µ
<b>Optical Power Source</b>	VCSEL	LED	Laser
<b>Optical Power Output*</b>	-3 dBm	-14 dBm	-3 dBm
<b>Optical Connectors</b>	ST		FC, ST

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

<b>System Bandwidth @ 2 dB</b>	10Hz - 16 MHz
<b>Signal Input Impedance</b>	75 Ohm unbalanced
<b>Input Signal Level</b>	0 - 5 V @ 75 Ohm
<b>Signal-to-Noise Ratio*</b>	64 dB
<b>Differential Gain*</b>	< 3%
<b>Differential Phase*</b>	< 3°
<b>Sync Tilt</b>	< 1 %
<b>(standard window signal)</b>	
<b>Power Requirements</b>	6-12 VDC @ 100mA for SM & MM/850nm 6-12 VDC @ 140mA for MM/1300nm
<b>Operating Temperature</b>	-30°C to +70°C (-22°F to +158°F)
<b>Dimensions</b>	2.73"(69.4mm) x 1.0"(25.4mm) x 0.92"(23.4mm)

\*measured with ECT100-R receiver as per RS-250C @ 100m for multimode and 1km for single mode optical cable



## ORDERING INFORMATION

100E-VT-MM1Z-R – Video transmitter 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 ( $\geq 0$  dBm) 1310 nm transmitter
- = **SPD** for single mode high power ( $\geq 0$  dBm) 1310 nm / DFB transmitter
- = **S(15)** for single mode 1550 nm transmitter
- = **S(15)P** for single mode high power ( $\geq 0$  dBm) 1550 nm transmitter
- = **S(15)D** for single mode 1550 nm / DFB transmitter
- = **S(15)PD** for high power ( $\geq 0$  dBm) 1550 nm / DFB transmitter
- = **S(W)** for single mode CWDM / DFB transmitter
- = **S(W)P** for high power ( $\geq 0$  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** for optical connectors

**Note:** The specifications are subject to change without notice.



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