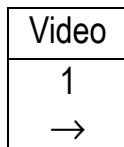
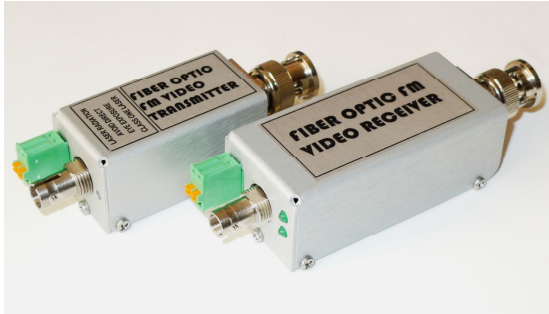


## ECT100-MM SINGLE CHANNEL VIDEO FM MINI OPTICAL LINK



ECT100-MM system provides high performance link for unidirectional transmission of composite video signal over a fiber optic cable.

The system features CCTV professional video quality and guarantees quality transmission of video signals with maximum bandwidth up to 18 MHz.

The ECT100-MM FM video mini transmitter/receiver are fully compatible with any ECT100, ECT200 or ECT400 type receiving/transmitting systems allowing for mixed configurations when required.

The ECT100-MM FM video mini transmitter/receiver utilizes linear frequency modulation and very low noise transmission technology to assure high quality and stability.

### FEATURES

- ❑ CCTV Professional Video Quality
- ❑ Up to 18 MHz Video Bandwidth
- ❑ Compatible with NTSC, PAL and SECAM Transmission
- ❑ Isolates EMI, RFI, Ground Loops
- ❑ Multimode and Singlemode Versions
- ❑ Power/Signal Status Indicator
- ❑ Compatible with 100 - 400 Series
- ❑ Compatible with 6 - 12 VDC Power Sources

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	-31 dBm	-33 dBm	-35 dBm
Optical Connectors	ST		FC, ST

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

<b>Video Bandwidth @ 2 dB</b>	10Hz - 18 MHz
<b>Video Input</b>	75Ω unbalanced
<b>Video Input Level</b>	NTSC: 1.0 V p-p, PAL: 1.3 V p-p
<b>Signal-to-Noise Ratio</b>	68 dB*
<b>Differential Gain</b>	< 3 %
<b>Differential Phase</b>	< 3°
<b>Field Tilt</b>	< 1 %
<b>Luminance Non-Linearity</b>	< 3 %
<b>Power Requirements:</b>	
<b>Transmitter</b>	6-12 VDC @ 100mA for SM & MM/850nm 6-12 VDC @ 140mA for MM/1300nm
<b>Receiver</b>	6 - 7 VDC @ 200mA (regulated)
<b>Operating Temperature</b>	-30°C to +70°C (-22°F to +158°F)
<b>Module Dimensions:</b>	
<b>Transmitter**</b>	2.73"(69.4mm) x 1.0"(25.4mm) x 0.92"(23.4mm)
<b>Receiver**</b>	3.42"(86.8mm) x 1.20"(30.7mm) x 0.92"(23.4mm)

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

\*\*measured without optical & power connectors.



## ORDERING INFORMATION

100E-VT-MM1Z – Video transmitter module

100E-VR-MM1Z – 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 ( $\geq 0$  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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