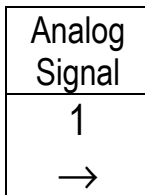


## ECT100-AS-MM SINGLE CHANNEL FM UNIVERSAL ANALOG SIGNAL MINI OPTICAL LINK



The ECT100-AS-MM FM system provides high performance link for unidirectional transmission of various analog signals over a fiber optic cable.

The ECT100-AS-MM FM transmitter/receiver is fully compatible with ECT200-AS & ECT400-AS type systems allowing for mixed configurations when required.

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

### FEATURES

- FM Transmitting Technology
- Wide Bandwidth Transmission from 10 Hz to 30 MHz
- Supports Transmission of Various Analog Signals such as: Timing, HDTV Tri-Level Sync, T1/E1, RF/IF, Video, Telemetry Signals and more
- 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	-23 dBm	-25 dBm	-27 dBm
Optical Connectors	ST		FC, ST

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

<b>Signal Bandwidth @ 2dB</b>	10 Hz - 30 MHz
<b>Input/Output Impedance</b>	Unbalanced 50, 75, 100 Ohm
<b>Input/Output Signal Level</b>	0 to +/- 2.0 V
<b>Signal Transfer Accuracy</b>	< 5% @ 10 Hz – 10 MHz <10% @ 10 MHz – 20 MHz < 20% @ 20 MHz – 30 MHz
<b>Signal-to-Noise Ratio*</b>	64 dB
<b>Input/Output Connector</b>	BNC
<b>Power Requirements:</b>	
<b>Transmitter Module</b>	6 - 7 VDC @ 120mA (regulated)
<b>Receiver Module</b>	6 - 7 VDC @ 240mA (regulated)
<b>Operating Temperature</b>	0°C to +50°C (32°F to +122°F)
<b>Dimensions:</b>	
<b>Transmitter Module</b>	2.73"(69.3mm) x 1.00"(25.4mm) x 0.93"(23.6mm)
<b>Receiver Module</b>	3.40"(86.4mm) x 1.20"(30.5mm) x 0.93"(23.6mm)

\*measured with 100m for multimode and 1km for single mode optical cable;



## ORDERING INFORMATION

100E-AST/I-MM1Z – transmitter module

100E-ASR/I-MM1Z – 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).

- I = **50, 75, 100** for input/output impedance

- Z = **FC, ST** 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](mailto:sales@elcommtech.com)  
<http://www.elcommtech.com>