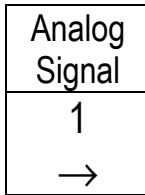
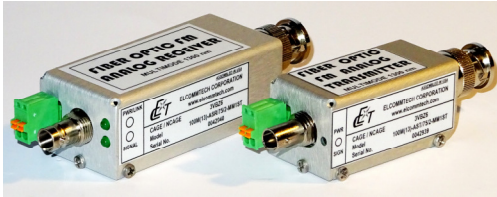


## ECT100-AS-MM SINGLE CHANNEL FM UNIVERSAL ANALOG SIGNAL MINI OPTICAL LINK



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 26 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  | -28 dBm   | -32 dBm | -34 dBm     |
| Optical Connectors    | ST        |         | FC, ST      |

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

|                           |   |
|---------------------------|---|
| Signal Bandwidth @ 2dB    | 10 Hz - 26 MHz                                |
| Input/Output Impedance    | Unbalanced 50, 75, 100 Ohm                    |
| Input/Output Signal Level | 0 to +/- 2.0 V                                |
| Signal Transfer Accuracy  | < 5%  |
| Signal-to-Noise Ratio*    | 64 dB   |
| Input/Output Connector    | BNC   |
| Power Requirements:       |   |
| Transmitter Module        | 6 - 7 VDC @ 120mA (regulated)                 |
| Receiver Module           | 6 - 7 VDC @ 240mA (regulated)                 |
| Operating Temperature     | 0°C to +50°C (32°F to +122°F)                 |
| Dimensions:               |   |
| Transmitter Module        | 2.73"(69.3mm) x 1.00"(25.4mm) x 0.93"(23.6mm) |
| Receiver Module           | 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.



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