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



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

Analog	
Signal	
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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.

Operating Wavelength	850 nm	1300 nm	1310/1550nm
Optical Core Diameter	50µ/62.5µ		8/10µ
Optical Power Source	VCSEL	Laser	Laser
Optical Power Output*	-3 dBm**	-10 dBm**	-4 dBm
Receiver Sensitivity	-23 dBm	-26 dBm	-27 dBm
Optical Connectors	ST		FC, ST

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

** measured with 62.5 μ multimode 1m patch cord.

Signal Bandwidth @ 2dB	10 Hz - 20 MHz
Input/Output Impedance	Unbalanced 50, 75, 100 Ohm
Input/Output Signal Level	0 to +/- 2.0 V
Signal Transfer Accuracy	< 5% @ 10 Hz – 10 MHz
	<10% @ 10 MHz – 20 MHz
Signal-to-Noise Ratio*	64 dB
Input/Output Connector	BNC
Power Requirements:	
Transmitter Module	6 - 7 VDC @ 100mA (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;



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

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 (=/> 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).

- I = 50, 75, 100 for input/output impedance
- Z = FC, ST for optical connectors

Note: The specifications are subject to change without notice.

