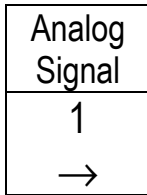


## ECT100-AS SINGLE CHANNEL FM UNIVERSAL ANALOG SIGNAL OPTICAL LINK



The ECT100-AS FM system provides high performance link for unidirectional transmission of various analog signals over a fiber optic cable. The ECT100-AS FM transmitter/receiver is fully compatible with ECT200-AS & ECT400-AS type systems allowing for mixed configurations when required. The ECT100-AS 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
- ❑ Universal Balanced/Unbalanced Input for Transmitter
- ❑ Supports Transmission of Various Analog Signals such as: HDTV Tri-Level Sync, T1/E1, RF/IF, Timing, 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	-30 dBm	-33 dBm	-34 dBm
Optical Connectors	ST, SC		ST, SC, FC

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

<b>Signal Bandwidth @ 2dB</b>	10 Hz - 26 MHz
<b>Input Impedance (TX)</b>	50, 75, 100 Ohm, Custom universal: balanced or unbalanced; up to 1 MOhm – unbalanced
<b>Output Load Impedance (RX)</b>	50, 75, 100 Ohm, Custom
<b>Input/Output Signal Level*</b>	0 to +/- 2 V @ 50 Ohm
<b>Signal Transfer Accuracy*</b>	< 5%
<b>Signal-to-Noise Ratio*</b>	64 dB
<b>Input/Output Connector</b>	BNC
<b>Power Requirements:</b>	
<b>Transmitter Module</b>	11 - 14 VDC @ 150mA, 21 - 27 VAC @ 100mA
<b>Receiver Module</b>	11 - 14 VDC @ 200mA,
<b>Operating Temperature</b>	0°C to +60°C (32°F to +140°F)
<b>Dimensions:</b>	
<b>Transmitter Module</b>	3.20"(81mm) x 3.72"(95mm) x 1.1"(28mm)
<b>Receiver Module</b>	4.17"(106mm) x 3.65"(93mm) x 1.1"(28mm)

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



## ORDERING INFORMATION

100E-AST/I-M1Z – transmitter module

100E-ASR/I-M1Z – 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 1310 nm,  $\neq$  0 dB transmitter
- = S(15) for single mode 1550 nm transmitter
- = S(15)P for single mode 1550 nm,  $\neq$  0 dB transmitter
- = S(W) for single mode 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, Custom for input/output impedence

- Z = FC, SC, 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>