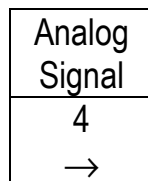


## ECT400 SERIES

# ECT400-AS      FOUR CHANNEL FM UNIVERSAL ANALOG SIGNAL OPTICAL LINK



The ECT400-AS FM system provides high performance link for unidirectional transmission of various analog signals over four, two or one a fiber optic cable.

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

The ECT400-AS utilizes wideband linear frequency modulation/demodulation and very low noise transmission technology to assure high quality and stability.

### ORDERING INFORMATION

400E-AST/I -M4Z – transmitter module

400E-ASR/I-M4Z – receiver module

**E** = **M** for multimode 850 nm  
= **S** for single mode receiver or 1310 nm transmitter  
= **S(15)** for single mode 1550 nm transmitter  
= **S(15)D** for single mode 1550 nm / DFB transmitter

**I** = **75 Ohm, Custom** for input/output impedance

**Z** = **FC, SC, ST** for optical connectors

### FEATURES

- ❑ Wideband FM Transmitting/Receiving Technology
- ❑ Universal Balanced/Unbalanced Input for Transmitter
- ❑ Supports Transmission of Various Analog Signals such as: Video, Sync, RF/IF, Timing, Telemetry Signals and more
- ❑ Multimode and Single Mode Versions
- ❑ High Accuracy In/Out Signal Transmission with No Adjustments
- ❑ Signal Status Indicators

| Operating Wavelength  | 850 nm    | 1310/1550 nm |
|-----------------------|-----------|--------------|
| Optical Core Diameter | 50μ/62.5μ | 8/10μ        |
| Optical Power Source  | VCSEL     | Laser        |
| Optical Power Output* | -4 dBm    | -4 dBm       |
| Receiver Sensitivity: | -23 dBm   | -28 dBm      |
| Optical Connectors    | SC, ST    | FC, SC, ST   |

\* with +/- 1 dBm variation.

|                             |                                                      |
|-----------------------------|------------------------------------------------------|
| Signal Bandwidth @ 3 dB     | 10 Hz - 10 MHz                                       |
| Input Impedance (TX)        | 75 Ohm, Custom<br>universal: balanced,<br>unbalanced |
| Output Load Impedance (RX)  | 75 Ohm, Custom                                       |
| Input/Output Signal Level   | 0 to +/- 5 V @ 75 Ohm                                |
| Signal-to-Noise Ratio*      | 62 dB                                                |
| Input/Output Connector      | BNC                                                  |
| Power Requirements:         |                                                      |
| Transmitter Module (TX)     | 11 - 15 VDC @ 0.3 A                                  |
| Receiver Module (RX)        | 13.5 VDC @ 0.5 A/regulated                           |
| Operating Temperature       | -20°C to +60°C<br>-4°F to +140°F                     |
| Dimensions (w/o connectors) | 11.6" x 5.2" x 1.05"<br>295 mm x 132 mm x 27 mm      |

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



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## ECT400 SERIES

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**Note:** The specifications are subject to change without notice.



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