

ECT200-AS DUAL CHANNEL UNIVERSAL ANALOG SIGNAL FM OPTICAL LINK



Analog Signal
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The ECT200-AS FM system provides high performance link for dual channel unidirectional transmission of various analog signals over a fiber optic cable.

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

The ECT200-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 30 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 Singlemode 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
Receiver Sensitivity**	-22 dBm	-24 dBm	-26 dBm
Optical Connectors	ST, SC		ST, SC, FC

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

** for one-fiber configuration with internal WDM.

Signal Bandwidth @ 2dB	10 Hz - 30 MHz
Input Impedance (TX)	50, 75, 100 Ohm, Custom universal: balanced or unbalanced; up to 1 MOhm – unbalanced
Output Load Impedance (RX)	50, 75, 100 Ohm, Custom
Input/Output Signal Level:	
Option 1	0 to +/- 2 V @ 50 Ohm
Option 2	0 to +/- 2.5 V @ 75, 100 Ohm, Custom
Signal Transfer Accuracy	< 5% @ 10 Hz – 10 MHz <10% @ 10 MHz – 20 MHz < 20% @ 20 MHz – 30 MHz
Signal-to-Noise Ratio*	64 dB
Input/Output Connector	BNC
Power	11 - 15 VDC, 350 mA
Operating Temperature	0°C to +60°C (32°F to +140°F)
Dimensions	6.15"(156 mm) x 3.3"(84 mm) x 2.42"(62 mm)

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



ORDERING INFORMATION

200E-AST/I-MYZ – transmitter module
200E-ASR/I -MYZ – receiver module
200E-ASX/I -MYZ – transceiver module

- E** = **M** for multimode 850 nm
- = **M(13)** for multimode 1300 nm
- = **M(8.5/13)** for multimode 850/1300 nm with WDM
- = **S** for single mode receiver or 1310 nm transmitter
- = **SP** for single mode 1310 nm, ≥ 0 dBm transmitter
- = **S(15)** for single mode 1550 nm transmitter
- = **S(15)P** for single mode 1550 nm, ≥ 0 dBm transmitter
- = **S(13/15)** for single mode 1310/1550 nm with WDM
- = **S(W)** for single mode CWDM / DFB transmitter
- = **S(W)P** for single mode CWDM / DFB, ≥ 0 dBm 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 Ohm, Custom** for input/output impedance
- Y** = **1, 2** for number of fiber
- Z** = **FC, SC, ST** for optical connectors

Note: The specifications are subject to change without notice.



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