

ECT200 SERIES

ECT200-AS-L DUAL CHANNEL UNIVERSAL ANALOG SIGNAL FM OPTICAL LINK WITH UP TO 120 km/75 mi RANGE



Analog Signal
2 →
1 ↔

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

The ECT200-AS-L FM system is compatible with ECT100AS, ECT100AS-L, ECT400-AS & ECT400-AS-L type systems allowing for mixed configurations when required.

The ECT200-AS-L 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
- ❑ Operating Range Up to 120 km / 75 miles
- ❑ High Accuracy In/Out Signal Transmission with No Adjustments
- ❑ Power and Signal Status Indicators

Configuration	2 Fiber	1 Fiber
Operating Wavelength	1550 nm	1530/1570 nm
Optical Core Diameter	8/10μ	
Optical Power Source	DFB Laser	
Optical Power Output	0 (+/- 1) dBm	
Receiver Sensitivity	-37 dBm	-36 dBm
Optical Connectors	ST, SC, FC	

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, 0.25 A
Operating Temperature	0°C to +50°C (32°F to +122°F)
Dimensions	6.15"(156 mm) x 3.3"(84 mm) x 2.42"(62 mm)

*measured with 1km single mode optical cable and 10 dBm optical attenuation.



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ORDERING INFORMATION

200S-AST/I-M2Z-L – transmitter module 1550 nm / 2 fiber
200S-AST/I -M1Z-L – transmitter module 1530 & 1570 nm / 1 fiber

200S-ASR/I-M2Z-L – receiver module 1260 – 1620 nm / 2 fiber
200S-ASR/I-M1Z-L – receiver module 1530 & 1570 nm / 1 fiber

200S-ASX/I-M2Z-L – transceiver module 1550 nm / 2 fiber
200S(15.3)-ASX/I-M1Z-L – transceiver module / 1 fiber: 1530 nm/TX & 1570 nm/RX
200S(15.7)-ASX/I-M1Z-L – transceiver module / 1 fiber: 1570 nm/TX & 1530 nm/RX

I = 50, 75, 100 Ohm, Custom for input/output impedance

Z = FC, SC, ST for optical connectors

Note: The specifications are subject to change without notice.



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