

ECT200 SERIES

ECT200-R-L DUAL CHANNEL VIDEO WITH 0 - 5 V SIGNAL AND UP TO 136 km/85 mi RANGE FM OPTICAL LINK



Video
2 →
1 ↔

FEATURES

- ❑ Remote Transmission Solution for Radar Display Applications
- ❑ Composite and Component Video Transmission
- ❑ Video Gen-Lock and Sync Transmission
- ❑ Balanced Video Input
- ❑ Operating Range Up to 136 km / 85 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 (+/- 0.5) dBm	
Receiver Sensitivity	-44 dBm	-43 dBm
Optical Connectors	ST, SC, FC	

The ECT200-R-L system provides high performance link for transmission of two video signal 0 - 5 V over a fiber optic cable.

The ECT200-R-L system is designed to be used a remote transmission solution for radar and special purpose display applications. The link can be also used to transmit video gen-lock, sync, and component video signals over fiber optic cable.

The ECT200-R-L transmitter and receiver are fully compatible with ECT100-R-L & ECT400-R-L type systems allowing for mixed configurations when required.

The ECT200-R-L utilizes linear frequency modulation and very low noise transmission technology to assure high quality and stability.

Video Bandwidth @ 2dB	10 Hz - 16 MHz
Video Input Impedance	75 Ohm universal: balanced or unbalanced
Video Input Level	NTSC: 1.0 V p-p, PAL: 1.3 V p-p
Signal-to-Noise Ratio*	64 dB
Differential Gain*	< 3 %
Differential Phase*	< 3 °
Field Tilt	< 1 %
Luminance Non-Linearity	< 3 %
Operating Temperature	-30°C to +70°C (-22°F to +158°F)
Power:	
Option 1	6 - 7 VDC @ 0.4 A
Option 2	11 - 15 VDC @ 0.25 A

*measured with 10 dBm optical attenuation.



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ORDERING INFORMATION

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

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

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

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



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