

ECT200 SERIES

ECT200B-R DUAL CHANNEL VIDEO FM OPTICAL LINK WITH 0 - 5 V SIGNAL LEVEL RANGE AND 30 MHZ BANDWIDTH



Video
2 →
1 ↔

The ECT200B-R system provides high performance link for transmitting of two video signal 0 - 5 V over a fiber optic cable. The ECT200B-R 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 ECT200B-R FM transmitter/receiver are fully compatible with ECT100B-R, ECT100B-MM-R and ECT400B-R type systems allowing for mixed configurations when required. The ECT200B-R utilizes linear frequency modulation and very low noise transmission technology to assure high quality and stability.

ORDERING INFORMATION

200BE-VU-MYZ-R - standalone module

- E** = **M** for multimode
 = **M(13)** for multimode 1300nm
 = **S** for single mode receiver or 1310nm transmitter
 = **SP** for high power (0 dBm) 1310nm transmitter
 = **S(15)** for single mode 1550nm transmitter
 = **S(15)P** for high power (0 dBm) 1550nm transmitter
 = **S(15)D** for single mode 1550nm/DFB laser transmitter
 = **S(15)PD** for high power (0 dBm)/DFB laser1550nm transmitter
- U** = **T** for transmitter, **R** for receiver, **X** for transceiver
Y = 1, 2 for number of fiber
Z = ST, FC or SC connectors

FEATURES

- ❑ Remote Transmission Solution for Radar Display Applications
- ❑ Composite and Component Video Transmission
- ❑ Video Gen-Lock and Sync Transmission
- ❑ Extended up to 30 MHz Video Bandwidth
- ❑ Balanced Video Input
- ❑ Multimode and Singlemode Versions
- ❑ High Accuracy In/Out Signal Transmission with No Adjustments
- ❑ Power and Signal Status Indicators

Operating Wavelength	850 nm	1300 nm	1310/1550 nm
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	-31 dBm	-33 dBm	-35 dBm
Receiver Sensitivity**	-30 dBm	-32 dBm	-34 dBm
Optical Connectors	ST, SC		FC, ST, SC

* with +/- 1 dBm variation;

** for one-fiber configuration with internal WDM.

System Bandwidth @ 2dB	10 Hz - 30 MHz
Input Impedance (transmitter)	75 Ohm universal: balanced or unbalanced 0 - 5 V @ 75 Ohm
Input/Output Signal Level	
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:	12 - 13 VDC @ 0.4 A, regulated

*measured as per RS-250C @ 100m for multimode and 1km for single mode optical cable.



Elcommtech Corp. 2620 Ocean Parkway, Suite 4H, Brooklyn, NY 11235
 Tel (718) 743-2869 • Fax (718)648-3642 • E-mail sales@elcommtech.com
<http://www.elcommtech.com>