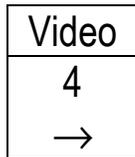


## ECT400B-R

# FOUR CHANNEL VIDEO FM OPTICAL LINK WITH 0 - 5V SIGNAL RANGE AND 30 MHZ BANDWIDTH



The ECT400B-R system provides high performance link for transmitting up to four unidirectional video signals 0 - 5 Vp-p over four or two fiber optic cables. The ECT400B-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.

All ECT400B-R transmitter/receiver cards are fully compatible with any ECT100B-R and ECT100B-MM-R type system allowing for mixed configurations when required.

The ECT400B-R utilizes linear frequency modulation and very low noise transmission technology to assure high quality and stability.

### FEATURES

- ❑ Remote Transmission Solution for Radar Display Applications
- ❑ Composite and Component Video Transmission
- ❑ Up to 30 MHz Video Bandwidth
- ❑ Video Gen-Lock and Sync Transmission
- ❑ Balanced Video Inputs
- ❑ 4 Channels per Single Card
- ❑ Multimode and Singlemode Versions
- ❑ Four, Two or One Fiber Configurations
- ❑ 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:			
Standard Version	-30 dBm	-34 dBm	-36 dBm
Standard Version**	-29 dBm	-33 dBm	-35 dBm
Optical Connectors	SC, ST		FC, SC, ST

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

\*\* for two or one fiber configuration.

System Bandwidth @ 2dB	10 Hz - 30 MHz
Signal Input Impedance (transmitter)	75 Ohm balanced
Input/Output Signal Level	0 - 5 Vp-p @ 75 Ohm
Signal-to-Noise Ratio*	64 dB
Differential Gain	< 3 %
Differential Phase	< 3°
Sync Tilt (standard window signal)	< 1 %
Power Requirements (transmitter)	11 - 15 VDC/0.3A
Power Requirements (receiver)	11 - 15 VDC/0.5A
Operating Temperature	-30°C to +70°C (-22°F to +158°F)
Dimensions	11.6"(295 mm) x 5.2"(132 mm) x 1.05"(27 mm)
Mean Time Between Failures (MTBF):	>100,000 Hrs.

\* measured as per RS-250C @ 1km, 62.5μ cable



## ORDERING INFORMATION

400BE-VT-MYZ-R – transmitter module  
400BE-VR-MYZ-R – receiver module  
400BE-VT-CYZ-R – transmitter card\*  
400BE-VR-CYZ-R – receiver card\*

- E = **M** for multimode 850 nm
- = **M(13)** for multimode 1300 nm
- = **S** for single mode receiver or 1310 nm transmitter
- = **SP** for single mode high power ( $\geq 0$  dBm) 1310 nm transmitter
- = **SPD** for single mode high power ( $\geq 0$  dBm) 1310 nm / DFB transmitter
- = **S(15)** for single mode 1550 nm transmitter
- = **S(15)P** for single mode high power ( $\geq 0$  dBm) 1550 nm transmitter
- = **S(15)D** for single mode 1550 nm / DFB transmitter
- = **S(15)PD** for high power ( $\geq 0$  dBm) 1550 nm / DFB transmitter
- = **S(W)** for single mode CWDM / DFB transmitter
- = **S(W)P** for high power ( $\geq 0$  dBm) CWDM / DFB 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).

**Y** = **2, 4** for number of fiber

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

*\*compatible with USR type chassis;*

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



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