

## ECT400-L

## FOUR CHANNEL VIDEO FM OPTICAL LINK WITH UP TO 136 km/85 mi RANGE



The ECT400-L system provides high performance link for transmitting up to four unidirectional composite video signals over four, two or one fiber optic cables. The system features CCTV professional video quality and guarantees quality transmission of video signals with maximum bandwidth up to 16 MHz.

All ECT400-L transmitter/receiver cards are fully compatible with any ECT100-L & ECT200-L type systems allowing for mixed configurations when required.

The ECT400-L utilizes linear frequency modulation and very low noise transmission technology to assure high quality and stability.

### FEATURES

- ❑ Near Broadcast Video Quality
- ❑ Balanced Video Inputs
- ❑ Compatible with NTSC, PAL and SECAM Transmission
- ❑ Up to 18 MHz Video Bandwidth
- ❑ Four Video Channels per Single Card
- ❑ Operating Range Up to 136 km / 85 miles
- ❑ Four, Two or One Fiber Configurations
- ❑ Power and Signal Status Indicators

<b>Configuration</b>	4 Fiber	2 Fiber	1 Fiber
<b>Operating Wavelength</b>	1550 nm	1530/1570 nm	1490, 1530, 1570, 1610 nm
<b>Optical Core Diameter</b>	8/10µ		
<b>Optical Power Source</b>	DFB Laser		
<b>Optical Power Output</b>	0 (+/- 0.5) dBm		
<b>Receiver Sensitivity:</b>	-44 dBm	-43 dBm	
<b>Optical Connectors</b>	FC, SC, ST		

<b>Video Bandwidth @ 2 dB</b>	10 Hz - 18 MHz
<b>Video Input</b>	75 Ohm balanced
<b>Video Output</b>	75 Ohm unbalanced
<b>Video Input/Output Level</b>	NTSC: 1.0 V p-p, PAL: 1.3 V p-p
<b>Signal-to-Noise Ratio*</b>	64 dB
<b>Differential Gain*</b>	< 3 %
<b>Differential Phase*</b>	< 3 °
<b>Field Tilt</b>	< 1 %
<b>Luminance Non-Linearity</b>	< 3 %
<b>Operating Temperature</b>	-30°C to +70°C (-22°F to +158°F)
<b>Power Requirements (transmitter)</b>	11 – 15 VDC/0.3A
<b>Power Requirements (receiver)</b>	11 – 15 VDC/0.5A
<b>Dimensions</b>	11.6"(295 mm) x 5.2"(132 mm) x 1.05"(27 mm)
<b>Mean Time Between Failures (MTBF):</b>	>100,000 Hrs.

\*measured with 10 dBm optical attenuation.



## ORDERING INFORMATION

400S-VT-M4Z-L – transmitter module 1550 nm / 4 fiber  
400S-VT-M2Z-L – transmitter module 1530 & 1570 nm / 2 fiber  
400S-VT-M1Z-L – transmitter module 1490, 1530, 1570 & 1610 nm / 1 fiber

400S-VT-C4Z-L – transmitter card\* 1550 nm / 4 fiber  
400S-VT-C2Z-L – transmitter card\* 1530 & 1570 nm / 2 fiber  
400S-VT-C1Z-L – transmitter card\* 1490, 1530, 1570 & 1610 nm / 1 fiber

400S-VR-M4Z-L – receiver module 1260 - 1620 nm / 4 fiber  
400S-VR-M2Z-L – receiver module 1530 & 1570 nm / 2 fiber  
400S-VR-M1Z-L – receiver module 1490, 1530, 1570 & 1610 nm / 1 fiber

400S-VR-C4Z-L – receiver card\* 1260 - 1620 nm / 4 fiber  
400S-VR-C2Z-L – receiver card\* 1530 & 1570 nm / 2 fiber  
400S-VR-C1Z-L – receiver card\* 1490, 1530, 1570 & 1610 nm / 1 fiber

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

*\*compatible with USR type chassis;*

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



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