

ECT400

FOUR CHANNEL VIDEO FM OPTICAL LINK



Video
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The ECT400 system provides high performance link for transmitting up to four unidirectional composite video signals over four or two fiber optic cables. The system features CCTV professional video quality and guarantees quality transmission of video signals with maximum bandwidth up to 30 MHz.

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

The ECT400 transmitter/receiver units are fully compatible with any ECT100MM and ECT100 type systems allowing for mixed configurations when required.

ORDERING INFORMATION

400EH-VT-XYZ – transmitter module

400EH-VR-XYZ – receiver module

E = **M** for multimode 850 nm
 = **S** for single mode receiver or 1310 nm transmitter
 = **S(15)** for single mode 1550 nm transmitter
 = **S(15)D** for single mode 1550 nm / DFB transmitter
H = **3** for higher 30 MHz bandwidth only
X = **M** - module style, **C** - rack card style (USR Series Chassis)
Y = **2, 4** for number of fiber
Z = **FC, SC, ST** for optical connectors

Note: The specifications are subject to change without notice.

FEATURES

- ❑ Near Broadcast Video Quality
- ❑ Balanced Video Inputs
- ❑ Compatible with NTSC, PAL and SECAM Format
- ❑ Four Video Channels per Single Card
- ❑ Multimode and Single mode Versions
- ❑ Four or Two Fiber Configurations
- ❑ Power and Signal Status Indicators

Operating Wavelength	850 nm	1310/1550 nm
Optical Core Diameter	50μ/62.5μ	8/10μ
Optical Power Source	VCSEL	Laser
Optical Power Output*	-4 dBm	-4 dBm
Receiver Sensitivity:		
Four Fiber Version	-30 dBm	-35 dBm
Two fiber Version	N/A	-34 dBm
Optical Connectors	ST, SC	FC, SC, SC

* with +/- 1 dBm variation.

Video Bandwidth @ 3 dB	10 Hz - 18 MHz*
Video Input	75 Ohm balanced
Video Output	75 Ohm unbalanced
Video Input/Output Level	NTSC: 1.0 V p-p, PAL: 1.3 V p-p
Signal-to-Noise Ratio**	62 dB
Differential Gain (max)	4 %
Differential Phase (max)	4 °
Field Tilt (max)	2 %
Luminance Non-Linearity (max)	4 %
Operating Temperature	-20°C to +70°C -4°F to +158°F
Power Requirements (transmitter)	11-15 VDC/0.4A
Power Requirements (receiver)	13.5 VDC/0.5A, regulated
Dimensions***	11.6" x 5.2" x 1.05" 295mm x 132mm x 27mm

*higher 30 MHz bandwidth available;

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

***measured without optical connectors.



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