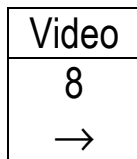


## ECT5800 8 CHANNEL VIDEO/10 BIT DIGITAL OPTICAL LINK



The ECT5800 system provides a high performance link for transmitting up to eight unidirectional composite video signals over a single or dual fiber optic cable. The system features broadcast video quality providing 10-bit video processing with uncompressed digital transmission.

The ECT5800 utilizes high speed analog-to-digital and digital-to-analog conversion, digital signal processing, time division multiplexing and fibre optic transmission at a data rate of up to 1.4 Gbit/sec.

### FEATURES

- ❑ Broadcast Video Quality with 10-bit Uncompressed Video Processing
- ❑ Supports NTSC, PAL, SECAM and Component (YUV, RGB, Y/C) Video Formats
- ❑ 8 Composite Video Channels per Single Fiber with WDM
- ❑ Input Video Cable Equalization
- ❑ Multifunction Signal Status Indicators

Fiber Type	Multimode	Singlemode
<b>Optical Core Diameter</b>	<b>50μ or 62.5μ</b>	<b>8/10μ</b>
<b>Operating Wavelength:</b>		
<b>2 Fiber Configuration</b>	850 nm	1310 or 1550 nm
<b>1 Fiber Configuration</b>	850 & 1310 nm	1310 & 1550 nm
<b>Optical Power Source</b>	Laser	Laser
<b>Optical Power Output*</b>	-3 dBm @ 850 nm	-3 dBm
<b>Receiver Sensitivity</b>	-21 dBm @ 850 nm	-23 dBm
<b>Receiver Sensitivity**</b>	-19 dBm @ 850 nm	-21 dBm
<b>Optical Connectors</b>	SC, ST	FC, SC, ST

\* per wavelength with +/- 0.5 dBm variation;

\*\* for one fiber configuration;

<b>Video Bandwidth @1dB</b>	10 Hz - 7 MHz
<b>Video Input</b>	75 Ohm balanced
<b>Video Output</b>	75 Ohm unbalanced
<b>Video Input Level</b>	NTSC: 1.0 V p-p, PAL: 1.3 V p-p
<b>Video Equalization Range</b>	Up to 300 m
<b>Signal-to-Noise Ratio</b>	64 dB
<b>Differential Gain</b>	< 0.5 %
<b>Differential Phase</b>	< 0.5°
<b>Field Tilt</b>	< 0.5 %
<b>Luminance Non-Linearity</b>	< 0.5 %
<b>Chrominance/Luminance Delay</b>	< 20ns
<b>K-2T Factor</b>	< 1.0%
<b>Power Requirements</b>	11 - 15 VDC @ 1.0 A
<b>Operating Temperature</b>	-20°C to +60°C (-4°F to +140°F)
<b>Dimensions</b>	11.6"(295 mm) x 5.2"(132 mm) x 2.0"(51 mm)



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## ORDERING INFORMATION

5800M-VT-**X2Z** – 8 channel video transmitter, multimode 850 nm, 2 fiber  
5800M-VT-**X1Z** – 8 channel video transmitter, multimode 850 & 1310 nm, 1 fiber  
5800M-VR-**X2Z** – 8 channel video receiver, multimode 850 nm, 2 fiber  
5800M-VR-**X1Z** – 8 channel video receiver, multimode 850 & 1310 nm, 1 fiber

5800S-VT-**X2Z** – 8 channel video transmitter, single mode 1310 nm, 2 fiber  
5800S(15)-VT-**X2Z** – 8 channel video transmitter, single mode 1550 nm/DFB, 2 fiber  
5800S-VT-**X1Z** – 8 channel video transmitter, single mode 1310 & 1550 nm, 1 fiber  
5800S-VR-**X2Z** – 8 channel video receiver, single mode 1200 - 1620 nm, 2 fiber  
5800S-VR-**X1Z** – 8 channel video receiver, single mode 1310 & 1550 nm, 1 fiber

**X** = **M** for module style  
= **C** for card style\*

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

*\*compatible with USR series chassis*

