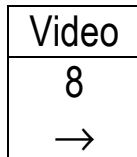


ECT5800 8 CHANNEL VIDEO/10 BIT DIGITAL OPTICAL LINK



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

* per wavelength with +/- 0.5 dBm variation;

** for one fiber configuration;

Video Bandwidth @1dB	10 Hz - 7 MHz
Video Input	75 Ohm balanced
Video Output	75 Ohm unbalanced
Video Input Level	NTSC: 1.0 V p-p, PAL: 1.3 V p-p
Video Equalization Range	Up to 300 m
Signal-to-Noise Ratio	64 dB
Differential Gain	< 0.5 %
Differential Phase	< 0.5°
Field Tilt	< 0.5 %
Luminance Non-Linearity	< 0.5 %
Chrominance/Luminance	< 20ns
Delay	
K-2T Factor	< 1.0%
Power Requirements	11 - 15 VDC @ 1.0 A
Operating Temperature	-30°C to +70°C (-22°F to +158°F)
Dimensions	11.6"(295 mm) x 5.2"(132 mm) x 2.0"(51 mm)



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*

