

ECT5484 4 CHANNEL VIDEO/10 BIT, 8 CHANNEL AUDIO/24BIT AND 4 CHANNEL DATA DIGITAL LINK



Video	Audio	Data
4	8	4
→	→	→

The ECT5484 system provides a high performance link for transmitting up to four unidirectional composite video signals, 4 Hi-Fi stereo (8 mono) audio channels and 4 multiformat data channels over a single fiber optic cable per single wavelength. The system features broadcast video quality providing 10-bit video processing with uncompressed digital transmission. ECT5484 utilizes high speed analog-to-digital and digital-to-analog conversion with 10-bit resolution, digital signal processing, time division multiplexing/demultiplexing and fibre optic transmission at a data rate of up to 1.4 Gbit/sec.

ORDERING INFORMATION

5484F-VADTU-X1Z – transmitter module
 5484F-VADRU-X1Z – receiver module

- F = M for multimode 850nm
- = S for single mode 1310nm
- = S(15) for single mode 1550nm
- U = 1 for TTL, 3 for RS-232, 4 for RS-422, 9 for Contact Closure
- X = C for card style*
- = M for module style
- Z = FC, ST or SC optical connectors

*compatible with USR series chassis

FEATURES

- ❑ Broadcast Video Quality with 10-bit Uncompressed Digital Processing
- ❑ Supports NTSC, PAL, SECAM and Component (YUV, RGB, Y/C) Video Formats
- ❑ 4 Composite Video Channels per Single Fiber / Single Wavelength
- ❑ Input Video Cable Equalization
- ❑ 4 Stereo or 8 Mono Audio Channels with 24 bit Digital Processing
- ❑ 4 RS-232/RS-422/TTL/CMOS (selectable) Data Channels
- ❑ Multifunction Power and Signal Status Indicators

Fiber Type	Multimode	Singlemode
Optical Core Diameter	50µ or 62.5µ	8/10µ
Operating Wavelength	850 nm	1310/1550 nm
Optical Power Source	Laser (VCSEL)	Laser
Optical Power Output	- 3 dBm	- 3 dBm*
Receiver Sensitivity	-20 dBm	-22 dBm
Optical Connectors	ST, SC	FC, ST or SC
Maximum Length of Fiber	1 km	20 km

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

Video Bandwidth @1dB	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
Signal-to-Noise Ratio	64 dB*
Differential Gain	< 0.5 %
Differential Phase	< 0.5 °
Field Tilt	< 0.5 %
Luminance Non-Linearity	< 0.5 %
Chrominance/	< 20ns
Luminance Delay	
K-2T Factor	< 1.0%
Audio Bandwidth	20 Hz – 20 kHz
Audio Input	600 Ohm or 10K, balanced/unbalanced
Audio Input Level (max)	+18 dBm, balanced/unbalanced
Audio Output Level (max)	+18 dBm/balanced or +12 dBm/unbalanced
Audio THD	< 0.1%
Audio S/N Ratio (weighted)	< 85 dB
Data Format	RS-232, RS-422, TTL/CMOS, Contact Closure (optional)
Data Rate	Up to 1.6 Mbit/sec
Power Requirements	12 V DC @ 0.7 A
Operating Temperature	-30°C to +70°C (-22°F to +158°F)
Dimensions	11.6"(295 mm) x 5.2"(133 mm) x 2.0"(51 mm)

*measured with ECT5484 receiver as per RS-250C



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