

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 and audio quality providing 10-bit video and 24 bit audio processing with uncompressed digital transmission. The ECT5484 utilizes high speed analog-to-digital and digital-to-analog conversion, digital signal processing, time division multiplexing/demultiplexing and fibre optic transmission at a data rate of up to 1.4 Gbit/sec.

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	-18 dBm	-21 dBm
Optical Connectors	ST, SC	FC, SC or ST

* with +/- 0.5 dBm variation.

Video Bandwidth @1dB	10Hz - 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/Luminance Delay	< 20ns
K-2T Factor	< 1.0%
Audio Bandwidth @ 1 dB	20 Hz – 20 kHz
Audio Input	600 Ohm or 10K, balanced/unbalanced
Audio Output	Balanced or Unbalanced
Audio In/Out Level (max)	+18 dBm/balanced or +12 dBm/unbalanced
Audio THD	< 0.1%
Audio S/N Ratio (weighted)	> 80 dB
Data Format	RS-232, RS-422, TTL/CMOS, Contact Closure (optional)
Data Rate:	
RS-232	Up to 120 Kb/sec
TTL/RS-422	Up to 1.6 Mbit/sec
Power Requirements	11 - 15 VDC @ 0.7 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

5484M-VADTU-X1Z – 4 Ch. video, 8 Ch. audio & 4 Ch. data transmitter, multimode 850 nm
5484M-VADRU-X1Z – 4 Ch. video, 8 Ch. audio & 4 Ch. data receiver, multimode 850 nm

5484S-VADTU-X1Z – 4 Ch. video, 8 Ch. audio & 4 Ch. data transmitter, single mode 1310 nm
5484S(15)-VADTU-X1Z – 4 Ch. video, 8 Ch. audio & 4 Ch. data transmitter, single mode 1550 nm - DFB
5484S(W)-VADTU-X1Z – 4 Ch. video, 8 Ch. audio & 4 Ch. data transmitter, single mode CWDM
5484S-VADRU-X1Z – 4 Ch. video, 8 Ch. audio & 4 Ch. data receiver, single mode 1200 - 1620 nm

CWDM wavelength (W): **14.7**(1470 nm), **14.9**(1490 nm), **15.1**(1510 nm), **15.3**(1530 nm),
15.5(1550 nm), **15.7**(1570nm), **15.9**(1590 nm), **16.1**(1610 nm).

U = **1** - for TTL, **3** - for RS-232, **4** - for RS-422, **9** - for Contact Closure

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

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

**compatible with USR series chassis*

