

## ECT2444 4 CHANNEL DIGITAL VIDEO, AUDIO & DATA LINK



Video	Audio	Data
4	4	4
→	→	→

The ECT2444 system provides a high performance link for transmitting up to four unidirectional composite video signals, 4 mono audio channels and 4 multiformat data channels over a single fiber optic cable per single wavelength. The system features CCTV professional video quality providing 8-bit video processing with uncompressed digital transmission. ECT2444 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.

### ORDERING INFORMATION

2444F-VADT/U-X1Z – 4 ch. transmitter  
 2444F-VADR/U-X1Z – 4 ch. receiver  
 2444F-VADX/U-XYZ – 4 ch. transceiver

**F** = **M** for multimode  
 = **S** for single mode receiver or 1310 nm  
 = **SP** for high power (0 dBm) 1310 nm  
 = **S(15)** for single mode 1550 nm  
 = **S(15D)** for single mode 1550 nm with DFB laser  
 = SP(15D)  
**U** = **1** for TTL, **3** for RS-232, **4** for RS-422, **5** for RS-485\*,  
**9** for Contact Closure  
**X** = **C** for card style\*\*  
 = **M** for module style  
**Y** = **1, 2** for number of fiber  
**Z** = **FC, ST, SC**\*\*\* for optical connectors

\*one RS-485 channel with transceiver options only;

\*\*compatible with USR series chassis;

\*\*\*for transceivers only.

### FEATURES

- ❑ CCTV Professional Video Quality with 8-bit Uncompressed Video Processing
- ❑ Balanced Video Inputs
- ❑ Supports NTSC, PAL, SECAM and Component (YUV, RGB, Y/C) Video Formats
- ❑ 4 Composite Video Channels per Single Fiber / Single Wavelength
- ❑ 4 Mono Audio Channels with 24 bit Digital Processing
- ❑ 4 RS-232/RS-422/TTL/CMOS or one RS-485 Data Channels
- ❑ Multifunction Power and Signal Status Indicators

Fiber Type	Multimode		Singlemode
	50μ	62.5μ	8/10μ
Optical Core Diameter			
Operating Wavelength	850 nm		1310/1550 nm
Optical Power Source	Laser		Laser
Optical Power Output*	-3 dBm		-4 dBm
Receiver Sensitivity	-19 dBm		-22 dBm
Optical Connectors	ST, SC**		FC, ST, SC**

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

<b>Video Bandwidth @ 2 dB</b>	10 Hz - 7 MHz
<b>Video Input</b>	75 Ohm balanced
<b>Video Input Level</b>	NTSC: 1.0 V p-p, PAL: 1.3 V p-p
<b>Signal-to-Noise Ratio</b>	56 dB*
<b>Differential Gain</b>	< 1.0 %
<b>Differential Phase</b>	< 1.0 °
<b>Field Tilt</b>	< 0.5 %
<b>Luminance Non-Linearity</b>	< 1.0%
<b>Audio Bandwidth</b>	20 Hz – 20 kHz
<b>Audio Input</b>	600 Ohm or 10K, balanced/unbalanced
<b>Audio Output</b>	600 Ohm (lowest), unbalanced
<b>Audio In/Out Level (max)</b>	+12 dBm
<b>Audio THD</b>	< 0.1%
<b>Audio S/N Ratio (weighted)</b>	< 85 dB
<b>Data Format</b>	RS-232, RS-422, RS-485, TTL/CMOS, Contact Closure
<b>Data Rate</b>	Up to 200 kb/sec for RS-232 Up to 1 Mb/sec for RS-485 Up to 8 Mb/sec for RS-422, TTL/CMOS Up to 5 ms for Contact Closure
<b>Power Requirements:</b>	
<b>Transmitter</b>	11 - 15 VDC @ 0.5 A
<b>Receiver</b>	11 - 15 VDC/regulated @ 0.5 A
<b>Transceiver</b>	11 - 15 VDC/regulated @ 1.0 A
<b>Operating Temperature</b>	-30°C to +70°C (-22°F to +158°F)
<b>Dimensions:</b>	
<b>Transmitter or Receiver</b>	11.6"(295 mm) x 5.2"(132 mm) x 1.05"(27 mm)
<b>Transceiver</b>	11.6"(295 mm) x 5.2"(132 mm) x 2"(51 mm)

\*measured with ECT2444 receiver as per RS-250C;



Elcommtech Corp. 2620 Ocean Parkway, Suite 4H, Brooklyn, NY 11235  
 Tel (718) 743-2869 • Fax (718)648-3642 • E-mail [sales@elcommtech.com](mailto:sales@elcommtech.com)  
<http://www.elcommtech.com>