

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

F = M for multimode 850 nm
 = M(13) for multimode 850 & 1310 nm/1 fiber transceiver
 = S for single mode 1310 nm
 = S(15) for single mode 1550nm or 1310 & 1550 nm/1 fiber transceiver
 N = 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 for optical connectors

*one RS-485 channel with transceiver options only;

**compatible with USR series chassis.

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
Operating Wavelength	850/1310nm		1310/1550 nm
Optical Power Source	Laser		Laser
Optical Power Output	-3 dBm		-3 dBm*
Receiver Sensitivity	-20 dBm		-22 dBm
Optical Connectors	ST		FC, ST

*with +/- 1.5 dBm variation; higher power laser sources are available per special request;

** for module option only.

Video Bandwidth @1dB	7 MHz
Video Input	75 Ohm balanced
Video Input Level	NTSC: 1.0 V p-p, PAL: 1.3 V p-p
Signal-to-Noise Ratio	56 dB*
Differential Gain	< 1.0 %
Differential Phase	< 1.0 °
Field Tilt	< 0.5 %
Luminance Non-Linearity	< 1.0%
Audio Bandwidth	20 Hz – 20 kHz
Audio Input	600 Ohm or 10K, balanced/unbalanced
Audio Input Level (max)	+12 dBm, balanced/unbalanced
Audio Output Level (max)	+12 dBm/unbalanced
Audio THD	< 0.1%
Audio S/N Ratio (weighted)	< 85 dB
Data Format	RS-232, RS-422, RS-485/1 Ch., TTL/CMOS, Contact Closure
Data Rate	Up to 200 kb/sec for RS-232 Up to 1.6 Mb/sec for RS-485 Up to 7 Mb/sec for RS-422, TTL/CMOS Up to 5 ms for Contact Closure
Power Requirements:	
Transmitter	12 V DC @ 0.5 A
Receiver	12 V DC/regulated @ 0.5 A
Transceiver	12 V DC/regulated @ 1.0 A
Operating Temperature	-30°C to +70°C (-22°F to +158°F)
Dimensions:	
Transmitter or Receiver	11.55"(293 mm) x 5.23"(133 mm) x 1.04"(26mm)
Transceiver	11.55"(293 mm) x 5.23"(133 mm) x 2.04"(52mm)

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



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