

ECT2888 8 CHANNEL DIGITAL VIDEO, AUDIO & DATA LINK



Video	Audio	Data
8	8	8
→	→	→

The ECT2888 system provides a high performance link for transmitting up to 8 unidirectional composite video signals, 8 mono audio channels and 8 multiformat data channels over a single fiber optic cable. The system features CCTV professional video quality providing 8-bit video processing with uncompressed digital transmission. ECT2888 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

2888F-VADT/N-XYZ – 8 ch. transmitter
 2888F-VADR/N-XYZ – 8 ch. receiver

F = M for multimode
 = M(13) for multimode 1300nm
 = S for single mode receiver or 1310nm transmitter
 = SP for high power (0 dBm) 1310nm transmitter option
 = S(15) for single mode 1550nm transmitter
 = S(15)P for high power (0 dBm) 1550nm transmitter option

N = 1 for TTL, 3 for RS-232, 4 for RS-422, 9 for Contact Closure
 X = C for card style*
 = M for module style
 Y = 1, 2 for number of fibers
 Z = FC, ST, SC for optical connectors

*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
- ❑ 8 Composite Video Channels per Single Fiber
- ❑ 8 Mono Audio Channels with 24 bit Digital Processing
- ❑ 8 RS-232/RS-422/TTL/CMOS Data Channels
- ❑ Multifunction Power and Signal Status Indicators

Fiber Type	Multimode		Singlemode
	50μ	62.5μ	8/10μ
Optical Core Diameter			
Operating Wavelength	850 & 1310nm		1310/1550 nm
Optical Power Source	Laser		Laser
Optical Power Output*	-3 dBm @ 850 nm		-3 dBm
Receiver Sensitivity	-19 dBm @ 850 nm		-22 dBm
Receiver Sensitivity**	-17 dBm @ 850 nm		-20 dBm
Optical Connectors	ST, SC		FC, SC, ST

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

** for one-fiber configuration with internal WDM.

Video Bandwidth @ 2 dB	10Hz - 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 In/Out 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
Data Rate	Up to 200 kb/sec for RS-232 Up to 8 Mb/sec for RS-422, TTL/CMOS Up to 5 ms for Contact Closure
Power Requirements:	
Transmitter	11 - 15 VDC @ 1.0 A
Receiver	11 - 15 VDC/regulated @ 1.0 A
Operating Temperature	-20°C to +70°C (-4°F to +140°F)
Dimensions	11.6" (295 mm) x 5.2" (132 mm) x x 2.0" (51 mm)

*measured with ECT2888 receiver as per RS-250C;



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