

# 8 V-8 A-3 D- IP

#### 10bit digital video with bi-directional audio and data

## Model: VDS2838-E-T VDS2838-E-R

#### **Description**

The VDS2838-E model provides for the simultaneous transmission of 4 video signals, 8 audio signals, 7 data signals and Ethernet over one multimode or single mode optical fiber. The use of 10-bit video sampling provides extremely high video quality. DIP selectable RS-232, RS-422, RS-485 2-wire or 4-wire, Manchester or Bi-phase and contact closure signal. The modules are available in either stand-alone or rack mount versions.



#### CHANNEL AVAILABILITY

(Specify at time of order)	Forward Path	Reverse Path
Number of Video	0 to 8	
Number of Audio	0 to 8	0 to 8
Number of Data	0 to 3	0 to 3
Number of Ethernet	1	1

#### **Features**

- 8-channel video with 8-channell audio, 3-channel data and Ethernet transmitters and receivers
- 10 bit uncompressed digital video
- · 24 bit digitally encoded audio
- Factory default setting RS-232 data protocol, DIP selectable RS-422, RS-484 2-wire or 4-wire,
   Manchester or Bi-phase and contact closure
- · Video input with AGC (Automatic gain control)
- · Anti-lightning chips on both Video and Data interface
- No In-field Electrical or Optical Adjustments Required
- NTSC, PAL, SECAM auto compatible
- Power, Video Presence, Data In/Out, and Fiber Status Indicating LED's to Monitor System Performance
- · Hot swappable rack-mount cards
- 12 VDC or 24 VAC power supply
- · Industry standard connectors

### **Ordering information**

Models	Wavelength	Fiber Type	MAX. Distance	
VDS2838-E-MT	1310/1310nm	MM	2Km	
VDS2838-E-MR	1310/131011111	IVIIVI		
VDS2838-E-MT	1310/1550nm	SM	20km	
VDS2838-E-MR	1310/13301111	SIVI	(40/60/80km optional)	

<sup>\*</sup>Optical transmission distance is limited to optical loss of the fiber and additional loss introduced by connectors, splices and patch panels. Distance can also be limited by fiber bandwidth. \*\*For 50/125 Fiber, subtract 4 dB from optical power budget.









## **Specifications**

Video (X8)	
Video format	PAL/ NTSC/SECAM
Video Input	0.5 ~ 2Vpp
Video Output	1Vp-p
Bandwidth (-3 dB)	8 MHz
Encoding	10bit
Differential gain	≤1%
Differential phase	≤1°
SNR	≥63 dB
Connector type	BNC 75Ω

Audio (X8)	
Input/output level	2Vp-p
Total harmonic distortion	≤1%
Bandwidth (-3 dB)	20~15KHz
Encoding	24bit
Input/output impedance	$600\Omega$ or $100K\Omega$
SNR	≥70 dB
Connector type	Terminal Block with Screw Clamps
Ethernet Rate	10/100Mbps

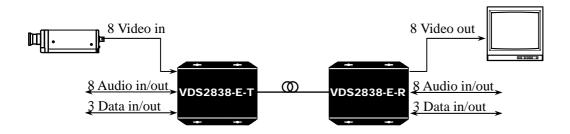
Data (X3)	
Data Protocol	RS-232, RS-422, 2 c 4-wire RS-485 an Manchester
Data rate	DC to 115 Kbps
Data Rate:	<10 <sup>-9</sup>
Connectors	Terminal Block with Screw Clamps

Power/Environmental		
Stand-alone	6W	
Rack-mount	6W	
Power adaptor	220VAC 12VDC/1A	to
Operating temperature	-40°C to +70°C	
Relative humidity	< 95% (non-condensing)	
MTBF	>100,000 Hrs	

Optical	
Wavelengths	1310/1550nm
Fiber type	SM/MM
Budget (system)	12dB
Output power	–5 ~ −10dBm
Receiver Sensitivity	-24dBm
Connector type	FC (SC or ST optional)

Mechanical		
Stand-alone Dimensions (mi	m)	260L x 205W x 45H
Rack-mount Dimensions (mi	m)	260L x 173W x 40H
Stand-alone (kg)	Weight	2.5
Rack-mount (kg)	Weight	1.5

## **System Design**



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Due to our continued effort to advance technology, product specifications are subject to change without notice.