

## 1 Channel Bi-directional Data

# Model: **VDS1010-T VDS1010-R**

## **Description**

The VDS1050 model provides for the simultaneous transmission of 1 bi-directional data signals over one multimode or single mode optical fiber



## CHANNEL AVAILABILITY

(Specify at time of order)	Forward Path	Reverse Path
Number of Video	0 to 1	0 to 1
Number of Audio	0 to 2	0 to 2
Number of Data	0 to 3	0 to 3

## **Features**

Number of Ethernet

- 1-channel data fiber optic transmitters and receivers
- Anti-lightning chips on both Video and Data interface
- No In-field Electrical or Optical Adjustments Required
- Power, Video Presence, Data In/Out, and Fiber Status Indicating LED's to Monitor System Performance
- · Hot swappable rack-mount cards
- Standalone and Rack-mountable
- 12 VDC or 24 VAC power supply
- · Industry standard connectors

# **Ordering information**

Models	Wavelength	Fiber Type	MAX. Distance
VDS1010-MT	1310/1310nm	MM	4Km
VDS1010-MR	1310/13101111	IVIIVI	
VDS1010-MT	1310/1550nm	SM	20km
VDS1010-MR	1310/13301111	Sivi	(40/60/80 km 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**

#### Power/Environmental

6W Stand-alone Rack-mount 6W

Power adaptor 220VAC to 12VDC/1A Operating temperature -40°C to +70°C

< 95%

Relative humidity (non-condensing) **MTBF** >100,000 Hrs

#### Data

RS-232, RS-422, 2 or Data Protocol 4-wire RS-485 and

Manchester

Data rate DC to 115 Kbps

Data Rate: <10<sup>-9</sup>

Connectors Terminal Block with

Screw Clamps

#### Optical

Wavelengths 1310/1550nm SM/MM Fiber type Budget (system) 12dB

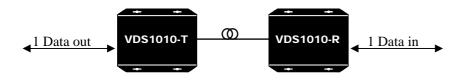
-5 ~ −10dBm Output power Receiver Sensitivity -24dBm Connector type FC (SC or ST optional)

#### Mechanical

260L x 205W x 45H Stand-alone Dimensions (mm) Rack-mount Dimensions (mm) 260L x 173W x 40H

Stand-alone Weight (kg) 2.5 Rack-mount Weight (kg) 1.5

# **System Design**



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