

8 bit digital video with reverse data

Model:
VDS150-T
VDS150-R

Description

The VDS150 model provides for the simultaneous transmission of 1 video signal and 1 reverse data signals over one multimode or single mode optical fiber



CHANNEL AVAILABILITY

(Specify at time of order)

Number of Video

Forward Path

0 to 1

Reverse Path

Number of Audio

Number of Data

0 to 1

Number of Ethernet

Features

- 1-channel video with 1-channel data fiber optic transmitter and receiver
- 8 bit uncompressed digital video
- 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
- 5VDC/1A power adaptor
- Industry standard connectors

Ordering information

Models	Wavelength	Fiber Type	MAX. Distance
VDS150-MT VDS150-MR	1310/1310nm	MM	4Km
VDS150-MT VDS150-MR	1310/1550nm	SM	20km (40/60 km optional)

*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

Video format	PAL/ NTSC
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

Data

Data Protocol	RS-232, RS-422, 2 or 4-wire RS-485 and Manchester
Data rate	DC to 115 Kbps
Data Rate:	<10 ⁻⁹
Connectors	Terminal Block with Screw Clamps

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)

Power/Environmental

Stand-alone	4W
Rack-mount	4W
Power adaptor	220VAC to 5VDC/1A
Operating temperature	-40°C to +70°C
Relative humidity	< 95% (non-condensing)
MTBF	>100,000 Hrs

Mechanical

Stand-alone Dimensions (mm)	110L x 64W x24H
Stand-alone Weight (kg)	0.5

System Design

