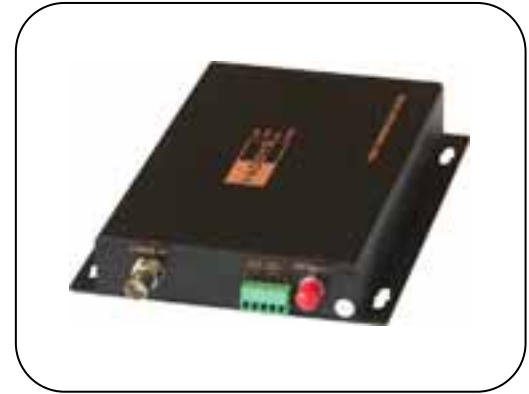


24bit bi-directional audio

Model:
VDS1002-T
VDS1002-R

Description

The VDS1002 model provides for the simultaneous transmission of 2 audio signals over one multimode or single mode optical fiber. The modules are available in either stand-alone or rack mount versions.



CHANNEL AVAILABILITY

(Specify at time of order)

Number of Video
Number of Audio
Number of Data
Number of Ethernet

Forward Path

0 to 1
0 to 2
0 to 3

Reverse Path

0 to 1
0 to 2
0 to 3

Features

- 2-channel audio fiber optic transmitters and receivers
- 24 bit digitally encoded audio
- 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
VDS1002-MT VDS1002-MR	1310/1310nm	MM	2Km
VDS1002-MT VDS1002-MR	1310/1550nm	SM	20km (40/60/80km 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

Audio

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

Power/Environmental

Stand-alone	6W
Rack-mount	6W
Power adaptor	220VAC to 12VDC/1A
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	260L x 205W x 45H (mm)
Rack-mount	Dimensions	260L x 173W x 40H (mm)
Stand-alone	Weight (kg)	2.5
Rack-mount	Weight (kg)	1.5

System Design

