

Model:
VDS3616-T
VDS3616-R

Description

The VDS3616-T/R model provides for the transmission of 1 channel one-way HDSDI over one multimode or single mode optical fiber



CHANNEL AVAILABILITY

(Specify at time of order)

Number of HDSDI input	1
Number of HDSDI output	0-3
Number of local loop-out on transmitter	1
Number of HDSDI redundant input on receiver	1

Features

- Transmits 1HD-SDI television signal over one single-mode fiber.
- Operation from 19.4Mb/s to 1.485Gb/s
- Retiming for SMPTE 292M (1.485Gb/s)
- Supports data rate operation of 143, 177, 270, 360, 540 Mbps and DVB-ASI at 270 Mbps
- Supports multi-mode or single-mode fiber
- Fully hot swappable from front of frame with no fiber or BNC disconnect/reconnect required
- Automatic input cable equalization to 350m
- Power, Video Presence and Fiber Status Indicating LED's to Monitor System Performance
- 1RU, 4RU, single standalone frame options

Ordering information

Models	Wavelength	Fiber Type	MAX. Distance
VDS3616-T VDS3616-R	1310/1310nm	MM	1km
VDS3616-T VDS3616-R	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

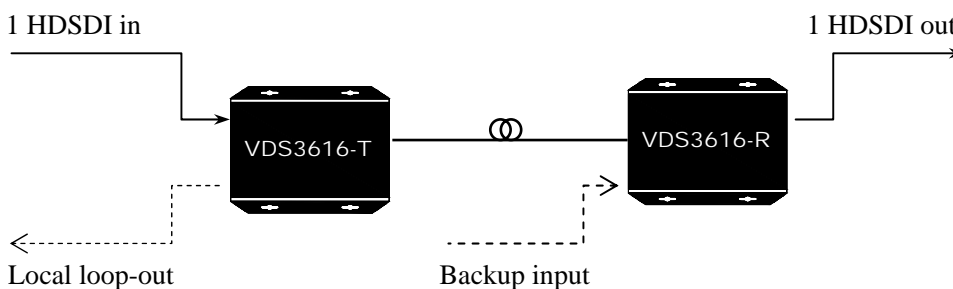
High Definition Serial television BNC input	
Standards of television signal	SMPTE 292M, 259M, 297M, 305M, 310M, M2S, DVB-ASI, and other Telecom/Datacom standards involving data rates from 19.4Mb/s to 1.5Gb/s
Reflected wear	>15db
Input/output	1/2
Output level	1Vp-p
Equilibrium	0-150@1.485Gb/s
Connector type	BNC 75Ω

High Definition Serial television BNC output(EO/OE)	
Level	800mV(standard)
Rising / falling edge	900ps(standard)
Over shoot	Swing <10%
Return loss	>15db
Jitter	<0.2UI
Connector type	BNC 75Ω

Optical	
Wavelengths	1310 or 1550nm
Fiber type	SM or MM
Budget (system)	>14db
Output power	-5 ~ -10dBm
Receiver Sensitivity	-24dBm
Fiber Adapter	FC/PC (SC or ST available)

Electric Index	
Operating temperature range	0°C~+50°C
Voltage	0.5A@12VDC
Power	6W
EMI/RFI	FCC Part15 Class A,EU EMC standard
MTBF	>100000 hours

System Design



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