

Overview

The VILINK HDV100 is a fiber optic digital Transmitter for transmitting HD/SDI and SDI video signals. It is a cost effective selection for transporting broadcasting HDTV.

The HDV100 Series is compatible with SMPTE-292M HD-SDI and SMPTE-259M SDI serial digital signal over long distance single mode fiber optic cable. It also supports DVB—ASI and many other video formats.

The HDV100 series offers a fully serial digital video encoding/decoding of uncompressed real time video providing adjustment free operation over a wide operational range. Using AGC techniques for distances from back-to-back to 40 Kilometers, our digital signaling offers superior receiver output stability, which is unaffected by changes in fiber path attenuation due to aging or splicing points. The extended temperature capability of the HDV100 satisfies very critical applications requiring high quality video performance with high reliability.

The HDV100 is a rugged standalone compact unit and the HDVR100 is a plug-in card for the rack version. The HDV1000 chassis can accommodate up to 16 hot-swappable plug-in cards with 2 power supplies.

Applications include broadcast video production, video editing, ITS Intelligent Traffic System, Homeland Security, Utility Management, Premise Networks, Military Hardened applications or anything requiring HD quality video performance.



Features

- Supports uncompressed HD-SDI & SDI signals
- Real Time Digital Video Transmission
- Supports SMPTE 292M and SMPTE 252M
- Standalone & Plug-in rack card
- AGC Single mode Transmission of 0 to 40 Km
- Extended Temperature Range

Applications

- Broadcast HDTV
- Video Production
- Studio Camera feeds
- Military Applications
- Medical applications
- Any HD Video applications

Ordering Information

Model	Descriptions
HDV100T03	1-Ch Uncompressed HD-SDI video Tx, 1310nm, SM, SC, 40 Km, +12 VDC
HDV100R03	1-Ch Uncompressed HD-SDI Video Rx, 1310nm, SM, SC, 40 Km, +12 VDC
HDVR100R03	1-Ch Uncompressed HD-SDI Video Rx Card, 1310nm, SM, SC, 40 Km
HDV1000	16 Slots Chassis w/ 2 Power Supplies

*** Please Consult Factory for Additional Model Numbers***

Specifications

System:	
Error Rate	1 in 10 ¹² or Better
Indicators	PWR, TX/Rx
Optical:	
Transmitter	Lasers
Receiver	PIN
Wavelength	1310/1550 nm
Power Budget	20 dB @ SM
Connector	ST, FC, SC
Environment:	
Operating	-34 ⁰ C to +74 ⁰ C
Storage	-40 ⁰ C to + 95 ⁰ C
Humidity	98% Non-Condensing

HD-SDI Video Interface:	
Channel	1
Format	SMPTE 292 & 259
Speed	1.485 Gbps & 270 Mbps
Connector	BNC
Physical:	
Dimensions	
Standalone	1" x 2" x 4"
Rack card	0.85" x 2.5" x 4"
Power:	
Standalone	12 VDC
Rack Card	90~240 VAC

Applications



Typical HDV100 Application