



Overview

VILINK one Channel HD SDI equipment: The VILINK DL115 is a fiber optic digital Transmitter/multiplexer for transmitting 1 channel 3G HD SDI broadcast video signal and channel Bi-directional data over a single mode fiber optic cable. It is a cost effective selection for transporting and control broadcasting quality video images.

The DL115 is compatible with all SMPTE rates: *SMPTE259M SDI from 143 to 360 Mbps, SMPTE344M 540Mbps, SMPTE292M HD-SDI 1.485 Gbps, SMPTE372M Dual Link HD-SDI 2,97 Gbps, SMPTE424M Dual Speed 3G-SDI 2.97 Gbps* serial digital signal over long distance single mode fiber optic cable. It is also capable of transmitting Bi-directional IEA RS-232 or IEA RS-422 data up to 115 Kbps per channel.

The DL115 offers a fully serial digital video encoding/decoding of uncompressed real time video providing adjustment free operation over a wide operational range. Using AGC and CWDM technologies for distances from back-to-back to 50 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 DL115 satisfies very critical applications requiring high quality video performance with high reliability. It is a the direct replacement equipment for upgrading old analog video monitoring network to the high quality HD video monitoring system.

The DL115 series may be further maintained with the optional VILINK Plus+ (NMS) Network Management & (GUI) Interface Software Package. This permits any users the ability of monitoring the entire system for status alarms, such as loss of signal or optical signal, on any one of the system channels.

Applications include ITS Intelligent Traffic System, Metro & Railroad systems, Avionic Surveillance, Oil and Gas Systems, Homeland Security, Utility Management, Premise Networks, Military Hardened applications or anything requiring HD quality video performance.

Features

- *Uncompressed Digital Broad Cast Video Transmission*
- *Bi-Directional Data Transceiver*
- *One Single Mode Fiber With CWDM Technology*
- *Real Time High Quality Broadcast 3G-HD-SDI Video*
- *Full Compliant with Video Pathological Code*
- *Compatible with all SMPTE3G SDI Rates*
 - *SMPTE259M SDI from 143 to 360 Mbps, SMPTE344M 540Mbps,*
 - *SMPTE292M HD-SDI 1.485 Gbps,*
 - *SMPTE372M Dual Link HD-SDI 2,97 Gbps,*
 - *SMPTE424M Dual Speed 3G-SDI 2.97 Gbps*
- *Fully Compliant with IEA-232 and IEA-422 Data Protocol*
- *Data Speed Up To 115 Kbps per Channel*
- *NMS (GUI) Monitor Package (Option)*
- *AGC Single mode Transmission of 0 to 50 Km*
- *NEMA Temperature*

Applications

- *Broadcasting Video Transmission*
- *High Quality HD-SDI Video Monitoring in Traffic Operation (ITS)*
- *High Quality Images METRO Security*
- *Avionic Surveillance System*
- *Oil & Gas Perimeter Intruder Detection*
- *Military Applications*
- *Premise Networks*
- *Any High Quality Video Requirement*

Ordering Information

Model	Descriptions
DL115TST05	One Channel 3 HD SDI (Video Tx) Bi-Directional RS-232 Data, CWDM SM ST, 50Km, +12 VDC
DL115RST05	One Channel 3G HD SDI (Video Rx), Bi-Directional RS-232 Data, CWDM SM ST, 50Km, +12 VDC
DL115RRST05	One Channel 3G HD SDI (Video Rx), Bi-Directional RS-232 Data, CWDM SM ST, 50Km, Rack Card

*** add -422 for RS-422 Interfaces***

System:	
Error Rate	1 in 10 ¹² or Better
Indicators	PWR, CH 1 .. CH4
NMS (Option)	GUI Interface, RS-232 Port
Optical:	
Transmitter	CWDM Lasers
Tx	1490nm~1550nm
Rx	1310nm
Receiver	PIN
Tx	1310nm
Rx	1490nm~1550nm
Power Budget	20 dB @ SM
Connector	ST
Environment:	
Operating	-34 ^o C to +74 ^o C
Storage	-40 ^o C to + 95 ^o C
Humidity	98% Non-Condensing
Power:	
Standalone	+12 VDC

3G HD-SDI Video Interface:	
Channel	1 x 3G HD-SDI
Format	SMPTE 259M, 292M, 344M
Format	372M and 424M
Speed	143Mbps~2.97 Gbps
Full HD Revolution	1280 x 720P @ 50/60fps 1920 x 1080P @ 50/60fps
Signal Level	800mVp-p +/-10%
Connector	BNC
Impedance	75 Ohms
Indicator	TXLEDs or RXLEDs
Bi-Directional Data:	
Channel	1
Speed	DC to 115 Kbps
Format	RS-232 / RS-422
Connector	RJ45
Physical:	
Standalone	6" x 4" x 1"
Rack Card	19" x 12" x 5.5"

Application

