



One Channel 3G HD-SDI Broadcast Video With Switchable Bi-Directional Data Over One Fiber

DL115

DL Series

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Overview

Vi-Link HD SDI Video equipment: The DL115 is a fiber optic digital multiplexer that designed to transmit high quality digital broadcast 3G HD SDI video signal and Bi-directional EIA-RS232 or RS-422 Data (switchable) over one single mode cable. It is a cost effective selection for transporting high quality SDI camera pictures and control data from remote location to the operation center via long fiber optic cable.

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.*

The DL115 offers a fully serial digital video encoding/decoding of real time high quality digital video providing adjustment free operation over a wide operational range. Using automatic gain control and state-of-the-art multiplexing, combining with 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.

Applications include Broadcast Video Production, Video Editing, Unmanned Aircraft Vehicle Days & Nights Monitoring Systems, ITS Intelligent Traffic System, Metro & Railroad Monitoring System, Homeland Security, Utility Management, Premise Networks, Military Hardened applications or anything requiring HD quality video performance.



Features

- Digital Broadcast Video Transmission
- Bi-Directional Data
- Single Mode Fiber With CWDM Technology
- Real Time High Quality 3G-HD-SDI Video
- 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 EIA RS-232/RS-422 standard Switchable Selection
- Asynchronous Data Speed Up to 115 Kbps
- +12 VDC or 90~240 VAC (Rack card)
- NEMA Temperature

Applications

- Broadcasting Video Transmission
- High Quality HD-SDI Video Monitoring in Traffic Control Center
- METRO Security System
- Unmanned Aircraft Video System
- Oil & Gas Perimeter Intruder Detection
- Military Applications
- Premise Networks
- Any High Quality Video Requirement

Order Information

Model	Descriptions
DL115ST03T	One Channel 3G HD SDI Video (Tx) and Switchable Bi-Directional Data Over Fiber, CWDM, SM ST, 50Km, 90~240 VAC
DL115ST03R	One Channel 3G HD SDI Video (Rx) and Switchable Bi-Directional Data Over Fiber, CWDM, SM ST, 50Km, 90~240 VAC

Specifications

System:

Error Rate	1 in 10 ¹² or Better
Indicators	Pwr, Video, Data

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

Physical:

Standalone	1" x 6" x 4"
Rackcard	19" x 12" x 5.5"

3G HD-SDI Video Interface:

Channel	1 x 3G HD-SDI
Format	SMPTE 259M, 292M and 424M
Speed	143M~540M, 1.485GB~2.97 GB
Full HD Revolution	1280 x 720P @ 50/60fps 1920 x 1080P @ 50/60fps
Signal Level	800mVp-p +/-10%
Connector	BNC
Impedance	75 Ohms

Bi-Directional Data:

Channel	1
Speed	DC to 115 Kbps
Format	EIA RS-232 / RS-422
Interface Setting	Switch Selectable
Connector	RJ45

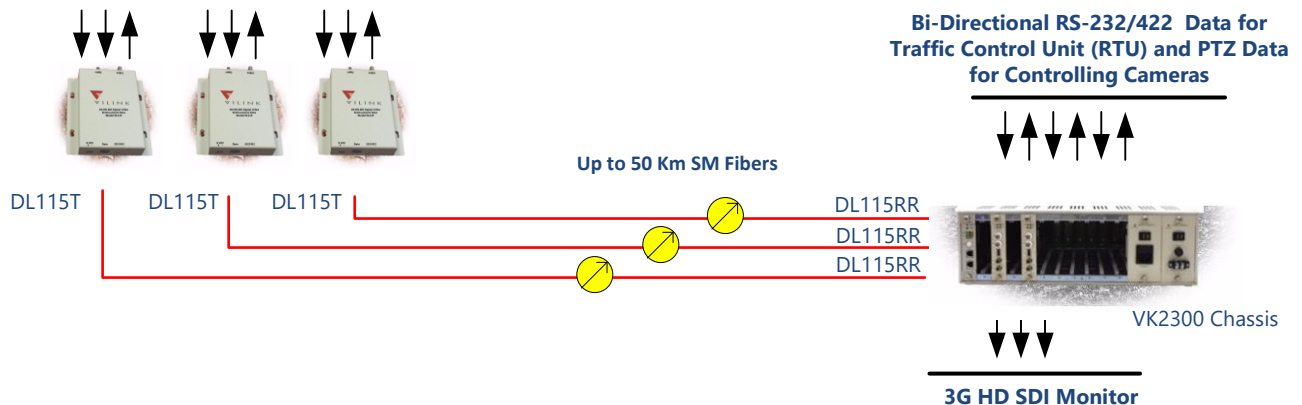
Power:

Standalone	+12 VDC @ 1 Amp
Rackcard	90~240 VAC

Application

High Quality Video Images
3G HD SDI Traffic Monitoring Cameras

Bi-Directional RS-232/422 Data for Traffic Control Unit (RTU)



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