

### 3G/HD-SDI Video To Fiber Converter



#### Description:

The 3G/HD-SDI series fiber video converter is an ideal and economic solution for broadcasting or surveillance applications. It receives one HD-SDI electrical input, perfectly converts electrical SDI signal to single mode optic SDI signal. It supports transmission image of SDTV(143-540Mbps), HDTV (1.485Gbps) and HDTV (3Gbps, 1080p60).

Both transmitter and receiver provide equalizing and reclocking at input unit in order to re-construct the signal for consistent quality. Besides, with Technology advanced fibertechnology, VSDI can easily pass pathological pattern to prove its complete transmission. The VSDI series fiber video converter are typically used in applications where the cameras have P/T/Z capabilities. Plug and Play design ensures the ease of installation and operation. Electronic and optical adjustments are never required. LED indicators are provided for instantly monitoring system status. Devices are available for either standalone or rack-mount installation, which is suitable for different working environment.

#### Features

- 1 channel video and audio transmission of digital video signal over optic fiber
- Handles pathological pattern
- Automatic cable equalization to ensure signal integrity

## 3G/HD-SDI Video Fiber Optical Converter Datasheet

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- Automatic reclocking 270Mbit/s - 1.48Gbit/s - 3Gbit/s
- Support signal type: 270Mbit/s to 3Gbit/s according to SMPTE 424M, SMPTE 292M and SMPTE 259M standards, DVB-ASI
- Directly compatible with HD-SDI camera systems and support RS-232,RS-422, and RS-485 data protocols
- Long transmission capability at least 10 km(6.2 miles) , up to 80 km
- Terminal block power input for industrial application
- Supports hot swapping and hot plugging
- Simplex LC/PC single mode optical connection
- Industry-grade of operating temperature from -10°C to 75°C , which is applied to the different working environment
- Stand-alone type or card-type installed in 19" 2U or 4U rack-mount chassis.

### Specifications:

SDI input/output	
Signal format	SMPTE ST-2082, ST-2081, 424M, 344M, 292M, 259M, DVB-ASI,
Data rate	270Mbit/s, 1.48Gbit/s, 2.97Gbit/s,
Cable Equalization	200 m at 2.97 Gbps (FHD) 280 m at 1.485 Gbps (HD) 600 m at 270 Mbps (SD)
SDI interface	BNC 75 Ohm
Fiber interface	LC/PC
Number of transmitter channel	1
Transmitter wavelength	1310 nm
Transmitter output power	-10~-3dBm/ -3~+2dBm
Number of receiver output	1
Receiver sensitivity	-18dBm

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Input power	DC 5 V or 12V
Power consumption	<3W
Operation Temperature	-20°C to 70°C
Storage Temperature	-40°C to 85°C
Humidity	0 ~ 95% (non-condensing)
Case material	Aluminum
Net weight	Approax. 1.5kg /pair

### Panel And Connection Graphs

