

SDI-100, SDI-111

3G SDI Video to Fiber Converter

1 Channel 3G SDI to Fiber Converter



Overview

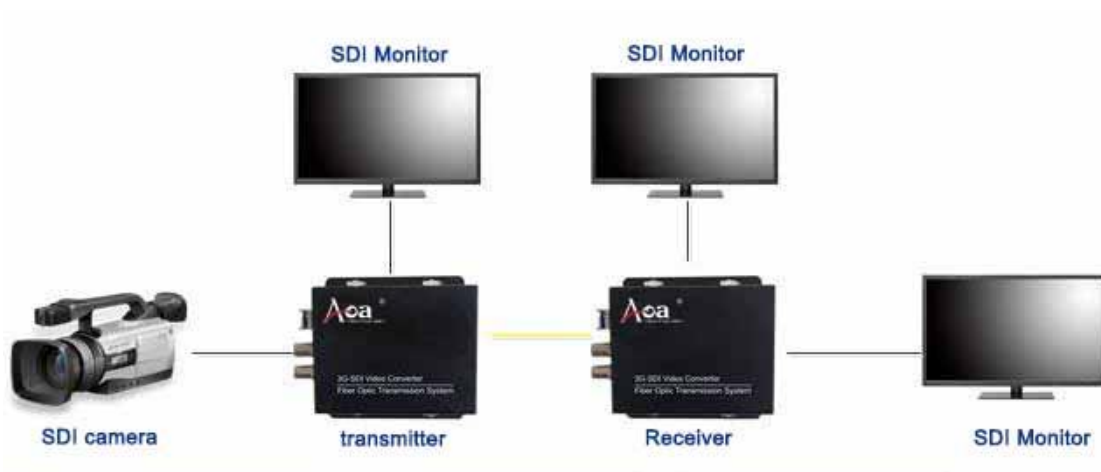
HD-SDI/3G-SDI video digital optical converter adopts international advanced all-digital gigabit optical fiber transmission technology; the HD-SDI/3G-SDI video signal can be transmitted through 1 fiber with non-Distortion, high-quality, long-distance transmission. This series of video to fiber converters have Stable performance, clear picture quality, and high Stability with LED Status Indication on the device. The working status of devices can be visually observed. At the same time, the switch value, voltage, working status, and other useful reverse signal information can be controlled by RS485 or RS232. This makes our devices more flexible when different customers' request comes.

Features

- All-digital, uncompressed HD optical fiber transmission
- FC interface, transmission distance
- Support hot swap
- Rack type optional (can be used together with rack type and box type)
- With clock recovery, clock shaping
- Pass Pathological (extremely harsh environment) test
- Input adaptive, output resolution up to 1080@60HZ
- Transmission distance Single-mode fiber 10KM or more, up to 80KM
- Unidirectional audio and video / reverse data / Ethernet optional
- Support special function customization

Application

- Intelligence Traffic Monitor system (ITS)
- Metro/High-speed way monitor system
- Electric power/ hydraulic Safety Monitor system
- Industrial mining enterprises Security System
- Long-distance multimedia teaching/ Campus Security
- CATV long-distance transmission
- Building Automatic Security System



Technical Specifications

Parameter	Specifications
SDI Input/Output	
Video interface	BNC
Video impedance	75Ω
Video input/output voltage	Typical:1Vpp,Min 0.5Vpp, Max 1.5Vpp
Video Bits Rate	Max 2.97Gb/s
Video SDI standard	270Mbps(SD-SDI),1.485Gbps/M(HD-SDI),SMPTE425M3Gb/s Mapping(3G-SDI),SMPTE424M 3Gb/s serial interface(3G-SDI)
Data	
Input/Output Connector	Industrial standard screw terminal
Interface Signal	RS485/RS422/RS232/Manchester
Baud Rate	0-400Kbps
BER	< 10 ⁻⁹
Operation Mode	Full duplex / half duplex
Audio	
Input/Output Connector	Industrial standard screw terminal
Input Impedance	10K Ohm
Output Impedance	50 Ohm
Max input/output voltage	3.0Vp-p
Frequency Response	10 Hz~44.1kHz @±3dB
SNR	> 70dB
Contact Closure	
Input/Output Connector	Industrial standard screw terminal
Signal Input/Output	Alarm or switching value Input, support TTL, Rs-232/422/485 or switches, buttons
Ethernet	
Physical Interface	RJ45
Operating Mode	Full duplex / half duplex
Support Agreement	IEEE802.3 10M, 100M, 10/100/1000M adaptive
Optical	
Interface	LC (SFP module)
Fiber Type	Single mode, single fiber (default)
Distance	10km
General	
Power	AC 220V; 8W
Operating Temperature	-10°C ~ 55°C
Humidity	0%~95% (non-condensing)
Physical Characteristics	10.4*10.4*2.8cm(Single device); 0.25kg(Single device) 25*14*7.5cm(Pair packing); 0.75kg(Pair packing)

Order Information

Model	Description
SDI-100T	1-ch 3G-SDI to Fiber Converter, Uncompress, with SFP module 3G Bidi SM, 10km, LC; Transmitter
SDI-100R	1-ch 3G-SDI to Fiber Converter, Uncompress, with SFP module 3G Bidi SM, 10km, LC; Receiver
SDI-111T	1-ch 3G-SDI+1-ch Loop+1-ch RS485 to Fiber Converter, Uncompress, with SFP module 3G/155M Bidi SM, 10km, LC; Transmitter
SDI-111R	1-ch 3G-SDI+1-ch Loop+1-ch RS485 to Fiber Converter, Uncompress, with SFP module 3G/155M Bidi SM, 10km, LC; Receiver



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