

4-Channel Bidirectional 3G-SDI Fiber Converter

Features

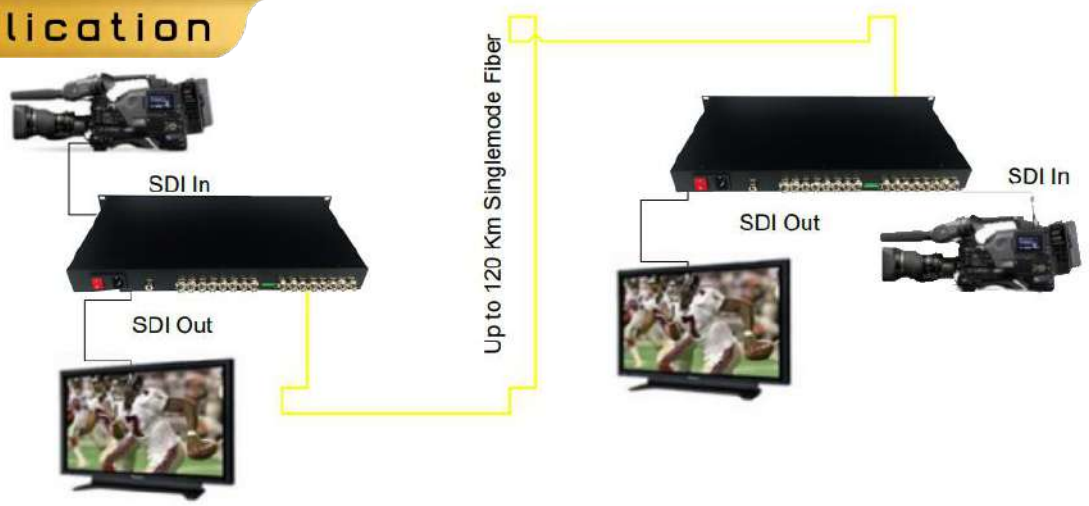
- ▶ 4 channel bidirectional 3G-SDI video transmission over optic fiber
- ▶ Automatic cable equalization to ensure signal integrity
- ▶ Automatic re-clocking 270Mbit/s - 1.48Gbit/s - 3Gbit/s
- ▶ Directly compatible with 3G-SDI camera systems and support Reverse RS-485 data protocols
- ▶ Long transmission capability at least 10 km (6.2miles) , up to 120 km
- ▶ Terminal block power input for industrial application
- ▶ Supports hot swapping and hot plugging
- ▶ Full digital non-compression broadcast level transmission;
- ▶ super optic dynamic range and free of adjustment prior to use;
- ▶ fiber optic WDM/CWDM/DWDM technique;
- ▶ industry level ultra-broad temperature range (-40°C~+85°C), adaptable to various environments;



Overview

LNK-3GSDI-4BV Series supports 4-channel bidirectional 3G-SDI standard high-definition video signal transmitted via single fiber optical cable, and monitor the signal locally over a 3G/HD-SDI loop output. E-link 3G-SDI Video over Fiber Converters includes one transmitter and one receiver for 1080P 3G-SDI signal. E-link 3G-SDI Fiber Converters can simultaneously transmit 4-Ch bidirectional 3G-SDI Video, 1-Ch Reverse RS-485 data, signal through a single optical fiber. The video quality up to broadcast standard, audio quality up to CD level supports Reverse RS-485 data communication format.

Application



Technical Indexes

Fiber Optical interface	
Fiber interface	Simplex LC
Transmission distance	550m-20Km
Wavelength	1310nm/1550nm
Video	
Video interface	BNC
Video input/output impedance	75Ω
Video input/output voltage	Typical:1Vpp, Min 0.5Vpp, Max 1.5Vpp
Video Bits Rate	Max 3.2Gb/s
Differential gain (10%~90% APL)	<1%
SDI format support	625/25 PAL
	525/29.97 NTSC, 525/23.98 NTSC
	720p50, 720p59.94
	1080i 23/24/30/50/59.94
Video SDI standard	1080P 23.98/24/30/50/60
	270Mbps (SD-SDI), 1.485Gbps/M(HD-SDI)
	SMPTE425M3Gb/s Mapping(3G-SDI)
	SMPTE424M 3Gb/s serial interface(3G-SDI)
Data	
Physical interface	Industrial standard screw terminal
Data type	Reverse RS485
Frequency/Rate support	Max. 57600bps for RS485
BER	<10 ⁻⁹
Electrical	
Power adaptor	AC 110~220V
Power consumption	<15W
LED Indicator	
SDI A/B/C/D/E/F/G/H	SDI video
PWR	Power Supply
Mechanical	
Dimensions (LxWxH)	19inch 1U (483 x 220 x 44.45mm)
Weight	7KG/pair
Casing	Aluminum Case
Mounting Options	Rack mount
Environmental	
Working Temperature	-20℃~+70℃
Storage Temperature	-40℃~+80℃
Working Humidity	0~95%
MTBF	≥100000 hours

Ordering Information

Model	Description
LNK-3GSDI-4BV	4-Ch Bidirectional 3G-SDI Video with loop-out, 20km, SM, FC, including 1 transmitter & 1 receiver, used by pairs
LNK-3GSDI-4BV1R	4-Ch Bidirectional SDI Video with loop-out + 1-Ch RS485 Reverse Data, 20km, SM, FC, including 1 transmitter & 1 receiver, used by pairs