

4-Channel 3G-SDI Fiber Converter

Features

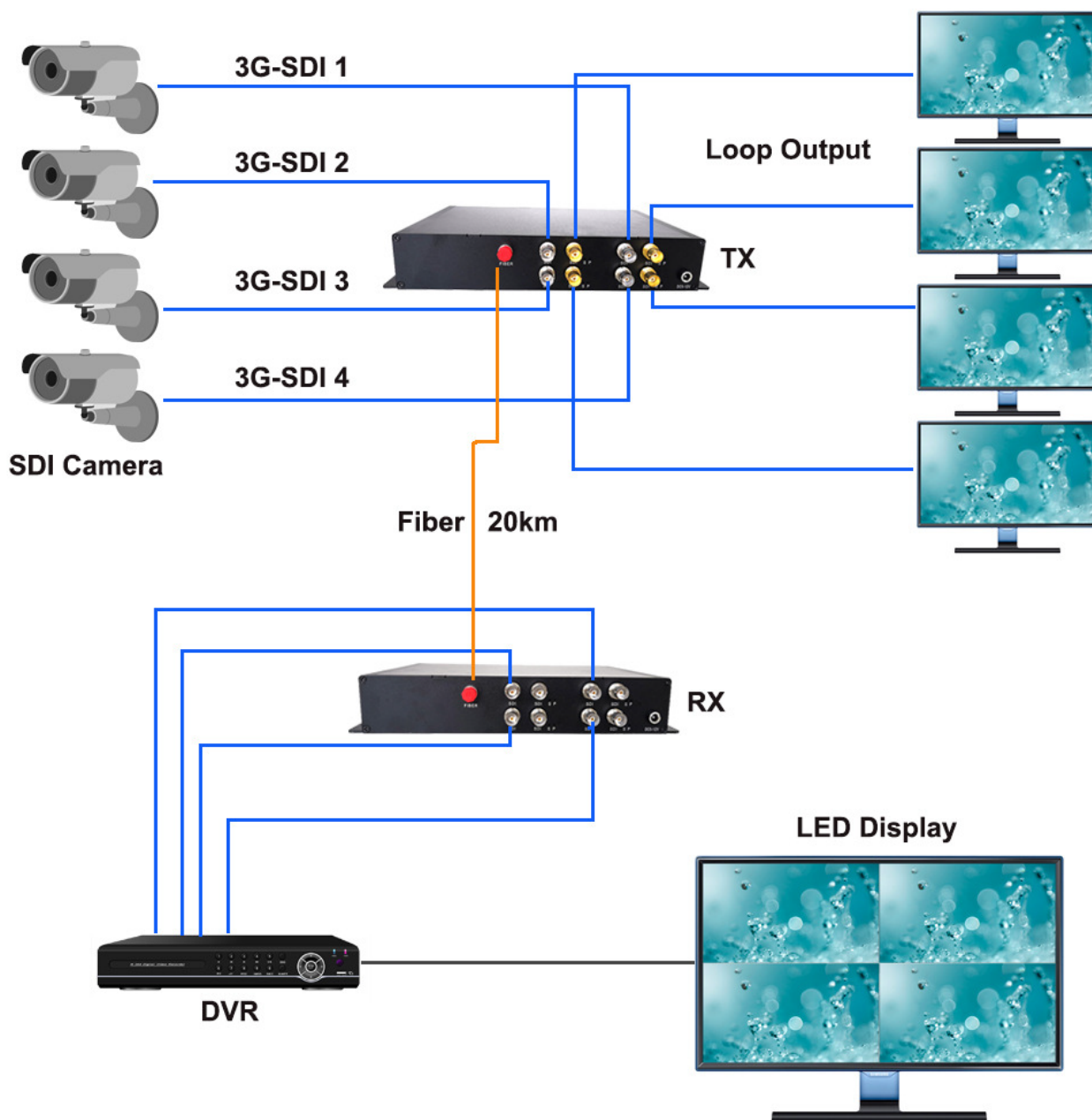
- ▶ 4 channel 3G-SDI video transmission over optic fiber
- ▶ Automatic cable equalization to ensure signal integrity
- ▶ Automatic reclocking 270Mbit/s - 1.48Gbit/s-3Gbit/s
- ▶ Directly compatible with 3G-SDI camera systems and support 4Ch Loop output
- ▶ Long transmission capability at least 10 km (6.2miles) , up to 100 km
- ▶ Supports hot swapping and hot plugging
- ▶ Full digital non-compression broadcast level transmission;
- ▶ super optic dynamic range and free of adjustment prior to use;
- ▶ industry level ultra-broad temperature range (-40°C ~+75°C), adaptable to various environments;



Overview

20100476 Series supports 4-channel 3G-SDI standard high-definition video signal transmitted via single fiber optical cable. 3G-SDI Video over Fiber Converters includes one transmitter and one receiver for 1080P 3G-SDI signal. 3G-SDI Fiber Converters can transmit 4-Ch 3G-SDI Video signal through a single optical fiber. The video quality is up to broadcast standard.

Application



Technical Indexes

Serial TV, BNC Input	SMPTE 424M, SMPTE 292M, SMPTE 259M, DVB-ASI, DVB-SSI and Telecom/Datacom
	270Mbit/s - 1.48Gbit/s – 3Gbit/s
	Input number: 4
	Reflection loss: >15DB
	Equilibrium: 0-150m @3Gb/s
	Connector: FC/PC (SC/PC optional)
Optics	Channel: 1
	Type: single-mode
	Wavelength: 4x CWDM

	Transmission distance (550m-100Km)
	Reflection loss: > 15dB
	Dithering: < 0.2UI
	Connector: FC/PC (SC/PC optional)
Serial TV, BNC output (EO/OE)	Output number:4
	Signal level: 800mV nominal
	Rise/fall time: 200ps indication
	Overshoot: < 10% amplitude
	Reflection loss: >15dB
	Dithering: < 0.2UI
	Connector: 75Ω BNC
Analog audio	Input/ output impedance: 600Ω equilibrium
	Input/output interface: XLR
	Max. input/output level: +15 dBu
	Frequency Response: 20Hz-20KHz,±0.1dB
	SNR: > 85dB(A weighted)
	THD+N: < 0.01%@1KHz
	Crosstalk: < -90dB
Power and environmental indication	Operating temperature: -40°C~+75°C
	Power supply: 1A@12VDC
	Power: 12 W
	EMI/RFI: meet FCC Part 15 Class A, EU EMC standard
	Average time trouble-free: >100000 hours
SDI video format supports	625/25PAL;525/29.97NTSC;525/23.98NTSC; 720p50; 720p59.94; 1080P23.98/24/25/30/50/60; 1080i 23/24/30/50/59.94;

Ordering Information

20100476	4-Ch SDI Video, 20km, SM, FC, including 1 transmitter & 1 receiver, used by pairs
20100480	4-Ch SDI Video + 1-Ch RS485 Reverse Data, 20km, SM, FC, including 1 transmitter & 1 receiver, used by pairs
20100481	4-Ch SDI Video + 1-Ch Forward Audio, 20km, SM, FC, including 1 transmitter & 1 receiver, used by pairs