

2 Chs Bi-directional 3G-SDI Video to Fiber Converter

System Design

Fiber Optic Video Transmitter & Receiver

SDI series can transmission 2 Chs Bi-directional 3G-SDI video over 1 single core fiber.

Single-Mode

3G-SDI unit is designed to support SC /UPC Optical connector

The Transmission distance Range according to the Optical Budget.

Manufacturer's default standard is single mode 40Km .

Features

- 2 Chs Bi-directional Video of 3G-SDI can be transmitted via 1 single fiber
- The Max rate of work is 3.2Gb/s
- Support SMPTE 292M (2.9Gb/s) clock recovery
- Support standard of 1.485Gbps/M(HD-SDI/ SD-SDI),SMPTE 425M 3Gb/s Mapping(3G-SDI),SMPTE 424M 3Gb/s serial interface(3G-SDI)
- Out wavelength range is 1310nm、 1550nm and 16 other kind of CWDM wavelength (comply with ITU-T G.694.2)
- Automatic cable equalization ,used for all rate below 3.2 Gb/s (Belden 1694A)
- LED Status Indication to monitor the working conditions
- Video transmission system can support many application branches structure
- The SDI video format support:

625/25 PAL

525/29.97 NTSC

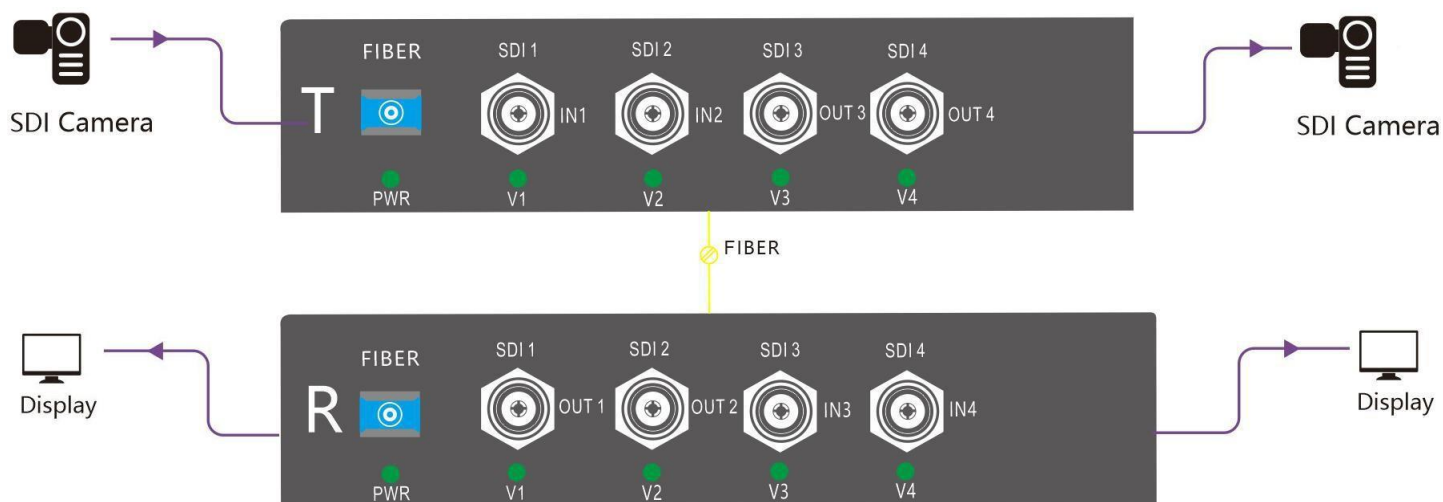
525/23.98 NTSC

720p50、 720p59.94

1080P 23.98/24/30/50/60

1080i 23/24/30/50/59.94

Typical application



Remark:

- The Optical Power Budget fit Single-Mode(9/125 m).
- Optical transmission distance is limited to optical loss of the fiber and any additional loss introduced by connectors, splices and patch panels.
- Maximum transmission distance is also limited by fiber bandwidth.
- Power adapter for stand-alone units is manufactured by third party .Power adapter included US, European, UK or Australian power plug.
- Please feel free to contact factory for any special requirement and customization

Specifications

Video

Number of channels : 2 Chs Bi-directional

Input/out put Connector : BNC 75Ω

Input/output voltage: 1.0 Volt p-p

Video Bits Rate: Max 3.2Gb/s

Video SDI Standards: 270Mbps(SD-SDI)

1.485Gbps/M(HD-SDI)

SMPTE425M3Gb/s Mapping(3G-SDI)

SMPTE424M 3Gb/s serial interface(3G-SDI)

Fiber Optic

Number of Optical port : 1

Connector : Simplex SC

Single-mode 40Km

Single-mode:1310/1550nm (Option)

Connectors

Video : BNC 75Ω

Fiber Optical : Simplex SC

Stand-alone power: DC JACK

Rack power: AC line cord

Electrical & Mechanical

Power adaptor : AC 100-240V to DC 5V 2A

Power consumption : <3W

Environmental

Operating Temperature : - 5C~+75 C

Storage Temperature : - 5 C~+85 C

Relative Humidity : 0%~95% (non-condensing)

MTBF : >100,000 hours

Remark: To meet the needs of our customers and help them to realize their projects, we also can manufacture the products according to customers' requirements.