

SD-SDI/HD-SDI/3G-SDI Video Over Fiber Converter

Terminal Parameters

System Design

Fiber Optic Video Transmitter & Receiver

SDI series can transmission 1/2/4/8-Channels

SD-SDI/HD-SDI/3G-SDI video over 1 single core fiber.

Single-Mode or Multi-Mode

SD-SDI/HD-SDI/3G-SDI units are designed to support LC /PC Optical connector

Offer patch cord, adaptor free to meet the SC/PC or ST/PC or FC/PC optical connector requirements.

The distance of transmission according to the Optical Budget. Manufacturer's default standard is single mode 20Km .

Features

- 1/2/4/8 Channels Video of SD-SDI/HD-SDI/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 fiber port Support SFP transceiver hot-plugged
- 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

Specifications

Video

Number of channels : 1/2/4/8 channels

Input/output 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)

Data

Data encode : RS485/RS422/RS232/Manchester

Physical interface : Industrial standard screw terminal

Frequency/Rate support : 0~400Kbps

Fiber Optic

Number of Optical port : 1 SFP

Connector : Simplex LC/Simplex FC/Duplex FC

Transmission Distance: Multi-mode 550m

Single-mode 20Km – 80Km

Wavelength: Multimode:850/1310nm;

Single-mode:1310/1550nm (Option)

Connectors

Video : BNC 75Ω

Fiber Optical : Simplex LC

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 : -45 C~+75 C

Storage Temperature : -45 C~+85 C

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

MTBF : >100,000 hours

Diagram Explanations



