



3G-SDI & Data To Fiber Converter/extender

Description:

BY-SDI-280 is an ideal and economic solution for broadcasting or surveillance applications. It receives one HD-SDI electrical input, perfectly converts electrical SDI signal to single mode optic SDI signal. It supports transmission image of SDTV (143-540Mbps), HDTV (1.485Gbps) and HDTV (3Gbps, 1080p60).

Both transmitter and receiver provide equalizing and reclocking at input unit in order to re-construct the signal for consistent quality. Besides, with Beyondopto advanced fiber technology, VSDI can easily pass pathological pattern to prove its complete transmission. Hd-sdi optical transceiver, dedicated security HD SDI monitor, high-definition conference system, support 1080 p (25 hz, 30 hz, 50hz, 60hz) / 1080 I / 720P with reverse control data. Beyondopto hd SDI optical transceiver product customer development use for radio, film and television industry, the earliest application in the television studio, the universiade on live radio, and later extended to SDI hd monitoring field.

Application:

1. Camera and CCU interface, broadcast infrastructure
2. Sports field production and ENG
3. Remote studio
4. Military and public security control
5. HD-SDI monitor system

Features:

- 1 channel video and audio transmission of digital video signal over optic fiber
- Handles pathological pattern
- Automatic cable equalization to ensure signal integrity
- Automatic reclocking 270Mbit/s - 1.48Gbit/s - 3Gbit/s
- Support signal type: 270Mbit/s to 3Gbit/s according to SMPTE 424M, SMPTE 292M and SMPTE 259M standards, DVB-ASI
- Long transmission capability at least 10 km(6.2 miles) , up to 80 km
- Terminal block power input for industrial application
- Supports hot swapping and hot plugging
- Simplex LC/PC single mode optical connection

SPECIFICATION

Optical :

Wavelength	1310nm&1470nm~1610nm
Output Power	-10~-3dBm / -3~+2dBm
Optic fiber	50/125u multimode, 62.5/125u multimode, 9/125u single mode
Rx sensitivity	-18dBm
Optical connector	LC、FC、ST (optional)
Distance	0~500M (MM) / 0~80KM (SM)

Data :

Data protocol	RS232, RS422, RS485, Manchester, BIPHASE data
Data rate	0~200 Kbps
Error rate	< 10 ⁻⁹
Connector	Standard terminal lead

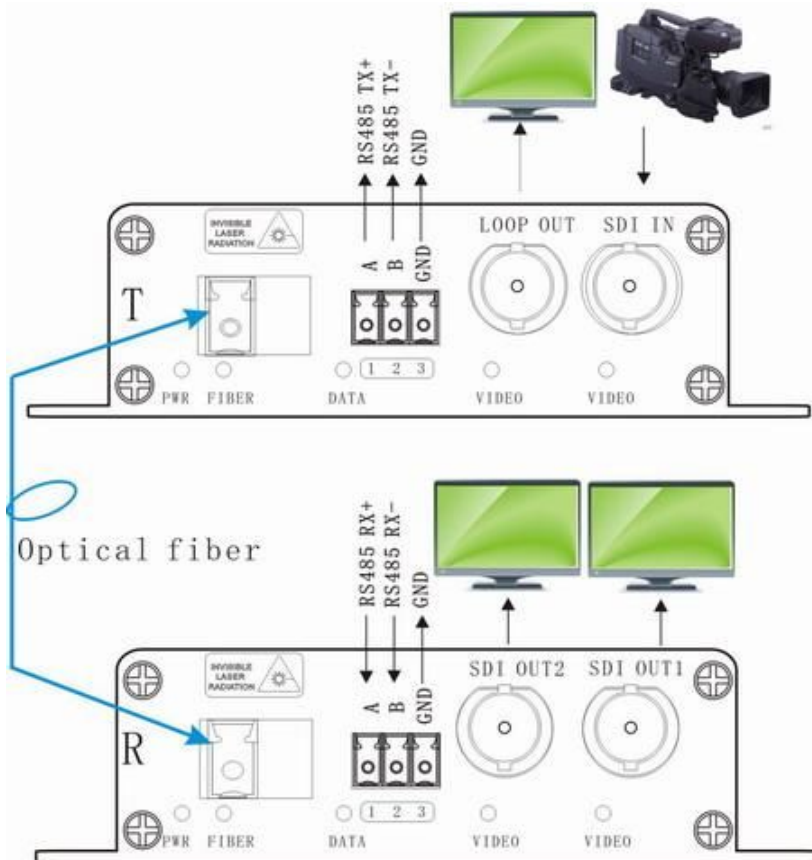
Video:

SDI Input	
Signal Type SDI	SMPTE 424M, SMPTE 292M, SMPTE 259M, DVB-ASI
Data Rates	270Mbit/s - 1.48Gbit/s - 3Gbit/s
Cable Equalization	Automatic cable EQ (Belden 1694A cable) 250m @ 270Mbit/s, 140m @ 1.5Gbit/s, 80m @ 3Gbit/s
Connector	BNC 75 Ohm

General :

Input Power	5 V DC or 12 V DC
Power consumption (maximum)	Transmitter: 1.8W Receiver: 1.5W
Operating temperature	0°C to 55°C
Storage temperature	-10°C to 70°C
Operating humidity	0 ~ 95% (non-condensing)
Net Weight	310g per pair
Case material	Aluminum

Panel And Connection Graphs



Dimension:

