

CLR-1HDSDI-20

1 x 1.485G HD/SD-SDI + 1 x Return RS485 to Fiber Converter SM LC Single-fiber



Overview

1-Channel SDI video over 1 single core fiber. SD-SDI/HD-SDI/3G-SDI units have LC /PC Optical connector as standard. SC/PC , ST/PC or FC/PC optical connectors are optional. The Transmission distance range varies according to the Optical Budget. Our default standard is 20Km on singlemode fiber optic cable.

Area of usage;

- Intelligent transportation supervisory system (ITS)
- High-speed Way supervisory/Tele-Communication System
- Security protection system, TV medical treatment
- Long-distance Multi-media Schooling, Campus monitoring, CCTV camera systems
- Long-distance broadcast television transmission system
- High-building Security Protection, Military Tele-Com projects

Features

- 1/2/4 Channels Video of SD-SDI/HD-SDI/3G-SDI can be transmitted via 1 single fiber
- The Maximum rate is 3.2Gb/s
- Support SMPTE 292M (2.9Gb/s) clock recovery
- Support standard of 270Mbps(SD-SDI) ,1.485Gbps/M(HD-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 Features

Number of channels	1
Interface	BNC
Input/output impedance	75Ω (unbalanced)
Input/output voltage	1Volt P-P (peak value)
Video Bit 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 Features

Data encode	RS485/RS422/RS232/Manchester
Physical interface	Industrial standard screw terminal
Frequency/Rate support	0~400K bps

Fiber Optic Features

Number of Optical Ports	1 SFP
Connector	Simplex LC
Transmission Distance	Multimode 550m, Singlemode 20Km
Wavelength	Multimode:850/1310nm, Single-mode:1310/1550nm

General Parameters

Operating Temperature	-45 °C ~ +75 °C
Storage Temperature	-45 °C ~ +85 °C
Relative humidity	0 ~ 95% (Non-condensing)
MTBF	>100,000 hours
Power Supply	DC 5V 2A
Power Consumption	<3W

Ordering Information

CLR-1HDSDI-20	1 x 1.485G HD/SD-SDI + 1 x Return RS485 to Fiber Converter SM LC SX
CLR-2HDSDI-20	2 x 1.485G HD/SD-SDI + 1 x Return RS485 to Fiber Converter SM LC SX
CLR-4HDSDI-20	4 x 1.485G HD/SD-SDI + 1 x Return RS485 to Fiber Converter SM LC SX
CLR-13GSDI-20	1 x 2.97G 3G-SDI + 1 x Return RS485 to Fiber Converter SM LC SX 20km
CLR-23GSDI-20	2 x 2.97G 3G-SDI + 1 x Return RS485 to Fiber Converter SM LC SX 20km
CLR-43GSDI-20	4 x 2.97G 3G-SDI + 1 x Return RS485 to Fiber Converter SM LC SX 20km
CLR-1HDCVI-20	1 Ch Forward HDCVI Video Converter SM , FC , 20km
CLR-2HDCVI-20	2 Ch Forward HDCVI Video Converter SM , FC , 20km
CLR-4HDCVI-20	4 Ch Forward HDCVI Video Converter SM , FC , 20km