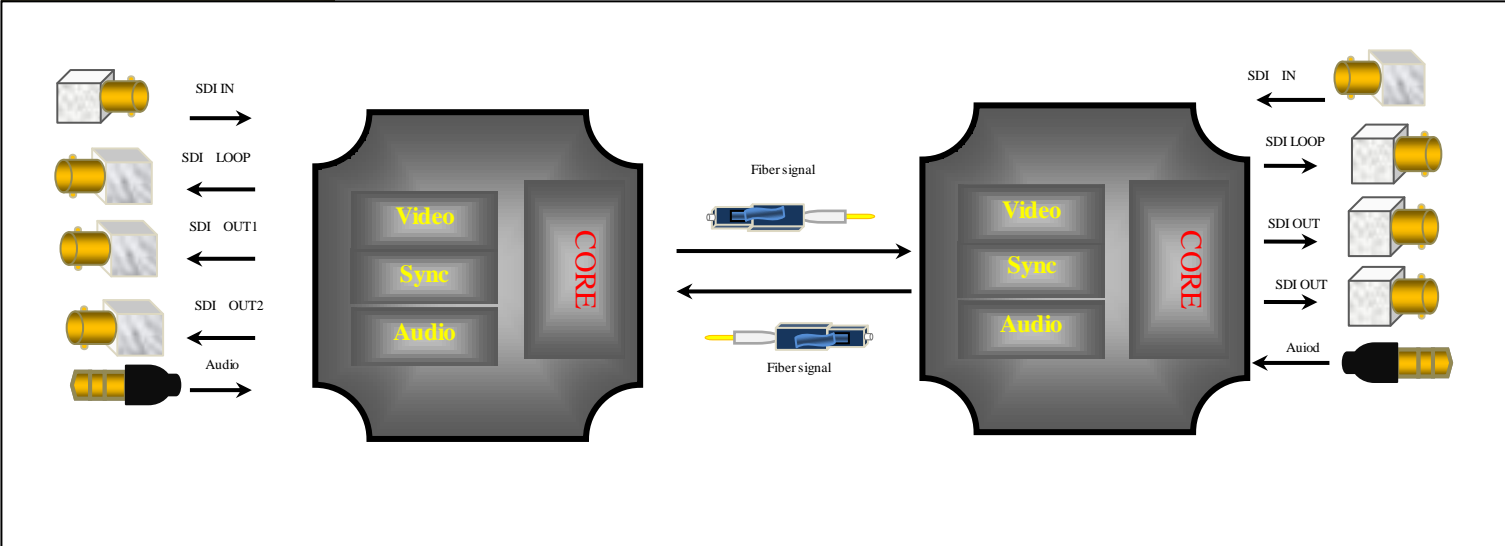


SDI Bidi Optical Transceiver (12G SDI+ Balanced XLR)

Version:1.0



Functional Diagram



Product Introduction

The professional-grade SDI bidirectional optical transceiver is an optical signal transmission system designed based on broadcast-grade SDI signals. The input SDI signal is self-adaptive, and the output can be 2160/1080P60/30, etc. The equipment has built-in signal equalization, serial clock recovery and line driver. Devices are used in pairs. Support 1-CH SDI signal input, 2-CH independent SDI signal output, 1-CH SDI loop out through optical signal equipment. The equipment adopts wavelength division multiplexing technology, single-mode and single-fiber design, and the standard transmission distance is 10KM. According to different application scenarios, corresponding modules with different distances can be replaced arbitrarily. The frequency of the SDI input signal of the device is automatically adapted, and it can automatically detect 12G/6G/3G/HD/SD/SDI signals, which can be applied to professional SDI video signals such as UHDTV/FHDTV/HDTV/SDTV, especially for long-distance broadcast-level high-definition digital signals Optical fiber transmission and applications.

Features

- ◆ 1-CH Fiber signal input
- ◆ 1-CH SDI signal input
- ◆ 1-CH SDI signal loop out
- ◆ 2-CH SDI signal output
- ◆ Universal FC optical fiber interface
- ◆ Support TYPE C upgrade
- ◆ Self-adapted 12G and below
- ◇ Special functions can be customized

Interface Description

No.	Function	No.	Function
1	Audio output	2	Audio input
3	DIP control(reserve)	4	Fiber IN/OUT
5	TYPE C upgrade	6	SDI OUT LOOP
7	SDI OUT	8	SDI OUT
9	SDI LOOP	10	AC 220V

Product Parameters

Product Name	SDI HD Video Optical Transceiver	
SDI Signal Input	Input signal	1-CH SDI signal
	Rate	100MHZ~12GHZ
	Signal amplitude	800mV ± 10%(75Ω)
	Connector	SDI
Fiber Signal Input	Input signal	1-CH Optical fiber signal
	Connector	Standard FC
	Impedance	100Ω
SDI Signal Output	Output signal	3-CH SDI Signal
	Rate	100MHZ~12GHZ
	Signal amplitude	800mV ± 10%(75Ω)
	Connector	SDI
Analog Audio Input Output	Audio input	2x Balanced XLR
	Audio output	2x Balanced XLR
Fiber Signal Output	Output signal	1-CH Fiber signal
	Connector	Standard FC
	Impedance	100Ω
General Parameters	Power supply	AC 220V
	Size	149*112*42mm
	Operating	0°C~50°C No condensation
	Storage temperature	-20°C~75°C
	Working humidity	20%~70%RH
	Storage humidity	0%~90%RH, No condensation

Application

