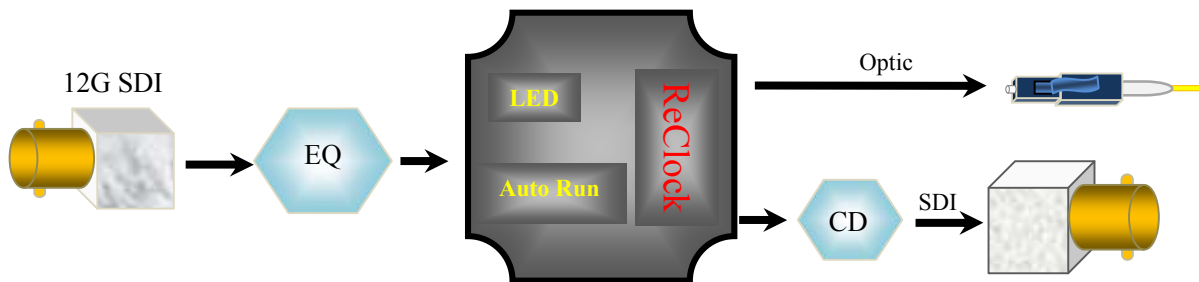




### Functional Diagram



### Product Introduction

DeviceWell 12G SDI optical transceiver, optical signal transmission system based on broadcast SDI signal design. The device supports up to 12G SDI signals and is backward compatible with 6G SDI, 3G SDI, 1.5G SDI and 270M SDI signals. The device has built-in signal equalization, serial clock recovery and line drive, supports 1 SDI signal input, 1 SDI signal loop output, and 1 optical signal output. The device adopts a detachable SFP optical module and a single-mode single-fiber design. The standard transmission distance is 20KM. The corresponding modules of different distances can be arbitrarily changed according to different application scenarios. The device's SDI input signal frequency is automatically adapted to automatically detect 12G/6G/3G/HD/SD-SDI signals, which can be applied to professional SDI video signals such as UHD TV/FHD TV/HDTV/SDTV, especially for broadcast-grade ultra-high definition digital. Long-distance fiber transmission and application of signals.

The device is powered by MicroUSB and can be used in USB device power supply systems.

## Features

- ◆ 1-CH 12G SDI signal input
- ◆ 1-CH 12G SDI signal output
- ◆ 1-CH serial digital fiber signal output
- ◆ Universal LC fiber interface
- ◆ Supports up to 12G SDI, backward compatible
- ◆ Input and output resolution adaptive
- ◆ 3 primary color LED light status indication
- ◆ Support Micro USB power supply
- ◆ Single / multimode fiber transmission
- ◆ Self-adapted 12G and below
- ◆ Clock recovery function
- ◇ Special features can be customized

## Interface Description



1. Three-color LED (SD red light / HD green light / 3G blue light / 6G yellow light / 12G purple light)
2. SDI signal input
3. SDI signal loop out
4. DIP switch
5. Optical signal output
6. LED power indicator
7. Micro USB power supply

## Product Parameters

Name	SDI HD Video Optical Transceiver	
Model	FD1201	
<b>SDI Video Input</b>	Input signal	SDI Signal
	Rate	100MHZ~12GHZ
	Signal amplitude	800mV±10%
	Connector	BNC complies with IEC169-8
	Impedance	75Ω
<b>SDI Video Output</b>	Output signal	SDI Signal
	Rate	100MHZ~12GHZ
	Signal amplitude	800mV±10%
	Connector	BNC complies with IEC169-8
	Impedance	75Ω
<b>Optical Signal Output</b>	Output signal	Optical signal
	Rate	100MHZ~12GHZ
	Connector	Standard LC
	Impedance	100Ω
<b>General Parameters</b>	Power supply	DC 5V
	Size	110*46*27mm
	Control panel	NO
	Weight	0.16 KG
	Operating temperature	0℃~50℃ No condensation
	Storage temperature	-20℃~75℃
	Working humidity	20%~70%RH
	Storage humidity	0%~90%RH, No condensation

## Parameters Setting

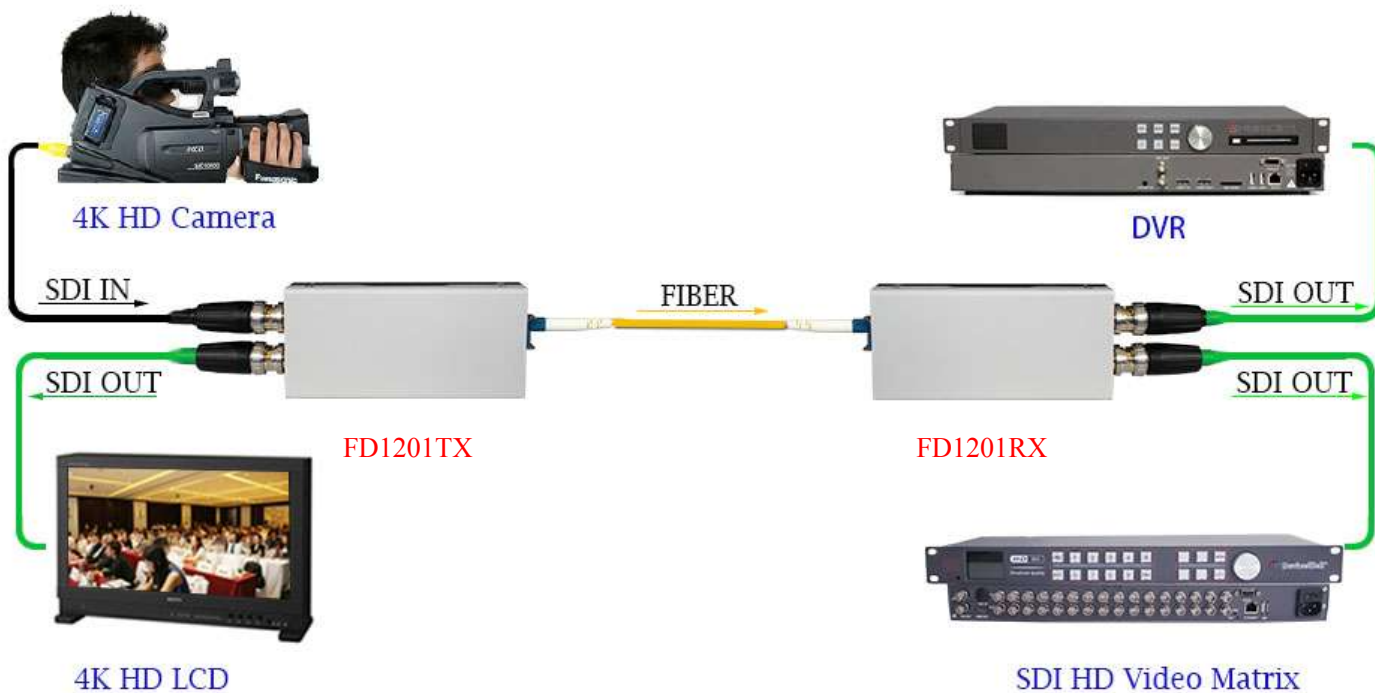


DIP		Resolution
1	2	
ON	ON	Reserved
OFF	OFF	Reserved
ON	OFF	Reserved
OFF	ON	Reserved

## Order Model

Model	Function	Chassis Type	Power Type	Others
FD1021RX	12G SDI to Optic	2019	DC 5V	
FD1021TX	Optic to 12G SDI	2019	DC 5V	
PD2017	12G SDI to Optic	2019	DC 5V	
PD2071	Optic to 12G SDI	2019	DC 5V	
PG9201	12G SDI Signal Generator	Half 1U	AC-220V	SDI up to 12G
PG9202	12G SDI Signal Generator	2019	AC-DC 12V	SDI up to 12G
PG9203	12G SDI Signal Generator	1U	AC-220V	SDI up to 12G
PD2011T	12G SDI Signal Distributor(1 to 3)	2018	AC-DC 12V	Downward compatible with 6G/3G/1.5G/270M
PD2011V	12G SDI Signal Distributor(1 to 5)	2018	AC-DC 12V	

## Application



# Product Size

