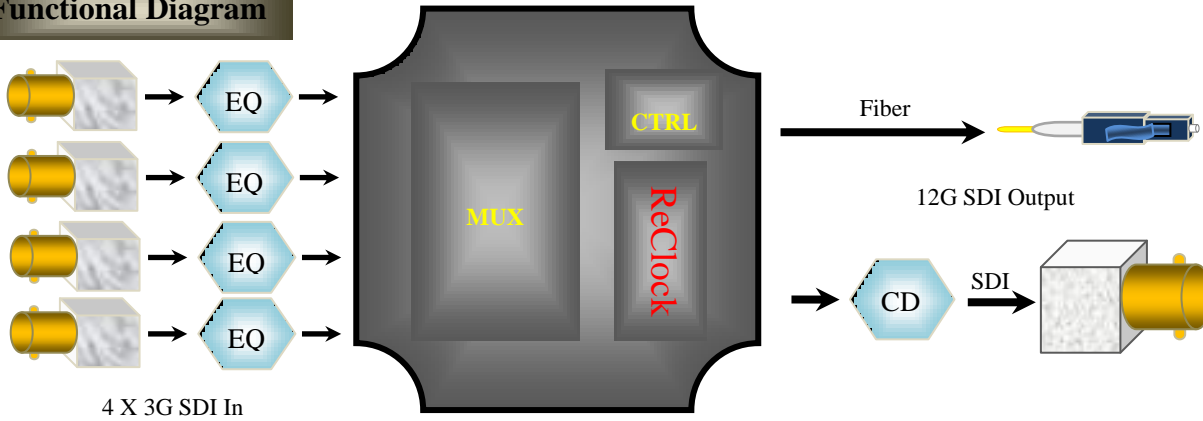




Functional Diagram



Product Introduction

DeviceWell 4K SDI MUX, 4K signal mux device based on broadcast-grade single-link 12G SDI and 4-link 3G SDI signal. The device has built-in SDI signal equalization, signal mux, serial clock recovery module and line driver, and adaptive input signals, no special settings are required. The device supports 4 X 3G SDI 4-link signal input, 1 6G/12G SDI single-link signal output, and can output 1 6G/12G optical signal at the same time. When the 12G SDI is used, the output drive distance exceeds 75M. The optical signal adopts the standard SFP optical module. 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 multiplex the 4K signal into a single-link 4K signal of 6G SDI or 12G SDI signals. It can be applied to professional SDI video signals such as UHD TV/FHD TV/HDTV/SDTV, especially for the field of link mux of broadcast-grade ultra-high definition digital signals.

Product Features

- ◆ 4 link 1.5G/3G SDI signal input
- ◆ 1 channel single link 6G/12G SDI signal output
- ◆ 1 channel 6G/12G optical signal output (universal LC interface)
- ◆ Supports up to 12G SDI, backward compatible
- ◆ Input and output resolution adaptive
- ◆ Built-in clock recovery function
- ◆ Optional SFP optical signal module
- ◇ Special features can be customized

Interface Description

1. 6G/12G SDI signal output	2. 4-link SDI signal input
3. Control	4. DIP switch (reserved)
5. Fiber signal output	6. Power indicator
7. DC 12V power input	

Product Parameters

Name	SDI HD Link Mux	
Model	PD2091M	
SDI Signal Input	Input signal	1.5G/3G SDI signal
	Rate	270MHZ~3GHZ
	Connector	BNC comply IEC169-8 standard
	Impedance	75Ω
SDI Video Output	Output signal	6G/12G SDI signal
	Rate	6GHZ ~12GHZ
	Signal amplitude	800mV ±10%
	Connector	BNC comply IEC169-8 standard
Fiber Signal Output	Output signal	Fiber signal
	Rate	270MHZ~12GHZ
	Signal amplitude	800mV ±10%
	Connector	LC
	Impedance	100Ω
Common Parameters	Power	DC 12V
	Size	105.3*105.2*29mm
	Control panel	No
	Working temperature	0°C~50°C no condensation
	Storage temperature	-20°C~75°C
	Work humidity	20%~70%RH
	Storage humidity	0%~90%RH, no condensation

Parameter 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
PD2091M	4 link SDI to single link 12G SDI	2019 Type	DC 12V	
PD2091D	Single link 12G SDI to 4 link SDI	2019 Type	DC 12V	
FD1021TX	12G SDI to Fiber signal	2019 Type	DC 5V	
FD1021RX	Fiber signal to 12G SDI	2019 Type	DC 5V	
PD2017	12G SDI to Fiber signal	2019 Type	DC 5V	
PD2071	Fiber signal to 12G SDI	2019 Type	DC 5V	
PG9201	12G SDI signal generator	Half 1U	AC-220V	SDI up to 12G
PG9202	12G SDI signal generator	2019 Type	AC-DC 12V	SDI up to 12G
PG9203	12G SDI signal generator	1U	AC-220V	SDI up to 12G
PD2011T	12G SDI signal distribution (1 to 3)	2018 Type	5V/ 12V Dual power	Backward compatible 6G/3G/1.5G/270M
PD2011V	12G SDI signal distribution (1 to 5)	2018 Type	5V/ 12V Dual power	

Application



PD2091M

SDI IN: 
SDI OUT: 

4K 4-Link (IN)



12G SDI (OUT)



FD1201 (OUT)



4K Monitor

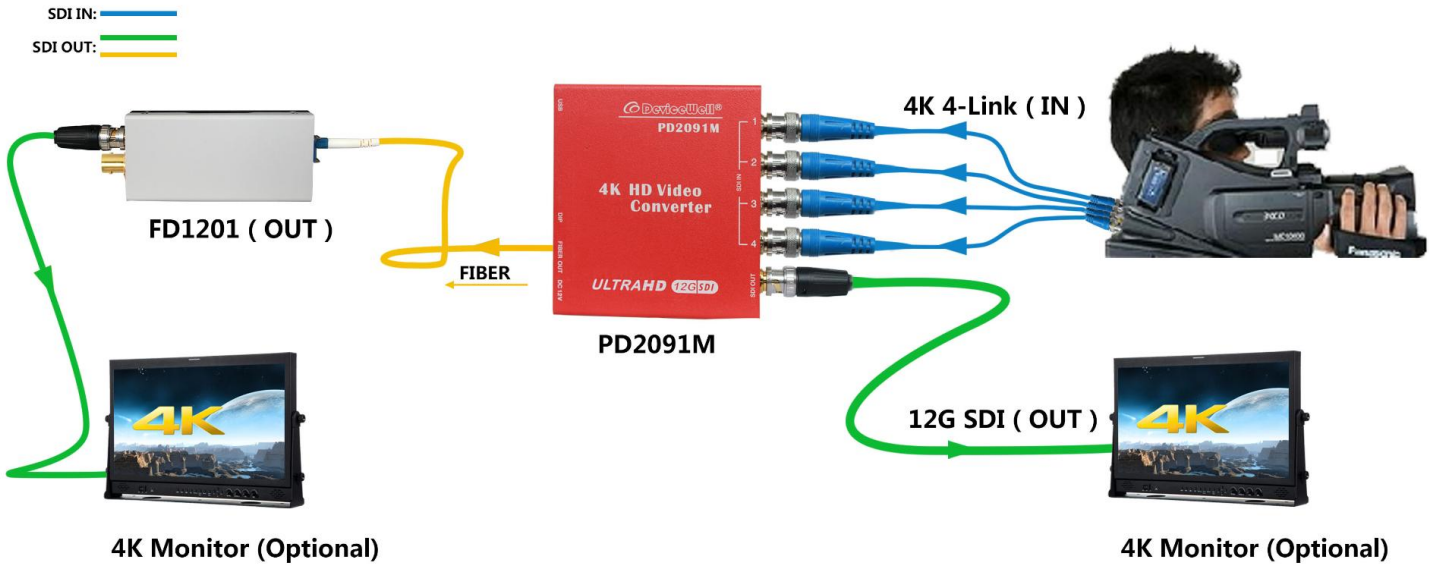


PD2091M

4K 4-Link (IN)



SDI IN: 
SDI OUT: 



Size

PD2091M
MUX

