

4 channel USB2.0 Fiber Optical Converter

➤ Features

- Complies with the general serial bus 2.0 specification;
- Complies with USB power delivery 2.0 specification;
- 100m distance rate \geq 60Mbps(6MB), 500m distance \geq 50Mbps(5MB).
20km \geq 16Mbps(1.6MB);
- Internal USB PHY adopts advanced CMOS process to achieve low power consumption;
- Support 4 channels independent configuration of USB2.0 signal input;
- Support LED status indicator;
- Plug and play,no driver;
- Wide range of operational temperature (-20°C ~75°C);
- Warranty: 3 years;



➤ Introduction

UPCOM USB2.0 fiber optical converter is developed to transmit 4-channel USB2.0 signal extension of 20km through one-core optical fiber.

USB2.0 fiber optical converter uses a special USB PHY to meet the requirements of USB2.0 protocol, and uses 1.25Gbps SFP to complete the photoelectric conversion and realize the stable transmission of USB2.0 signal.

USB2.0 fiber optical converter consists of a transmitter and a receiver that provides 5V power through the host USB 2.0 type A connector, the transmitter is powered by an external power supply and supplies power to the USB2.0 device through the USB2.0 A type connector.

➤ Application

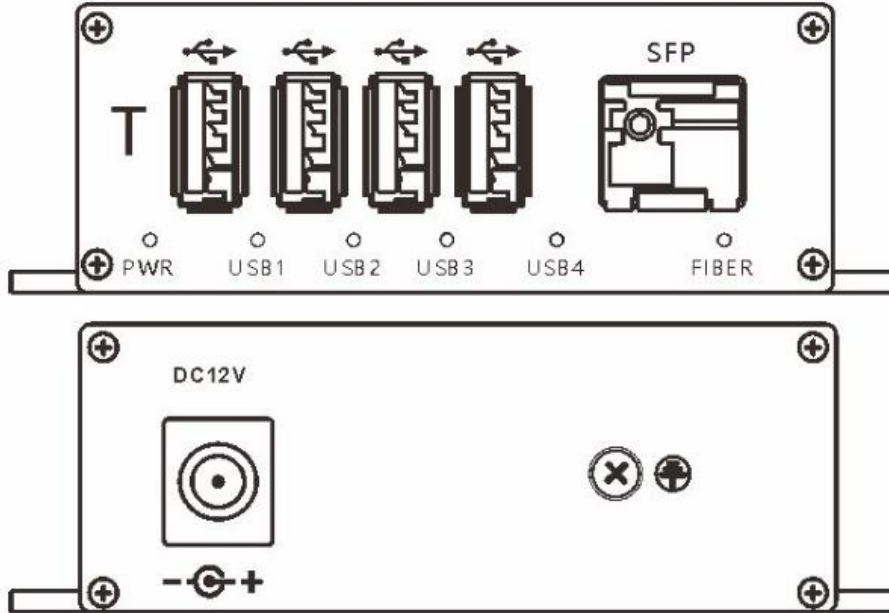
- Industrial video transmission
- Machine vision system
- HD video surveillance system;
- High-speed data acquisition system
- Remote storage
- Digital signage and TV wall
- Industrial printer system

➤ Specification

Fiber Optical	
Wavelength	1310-1550nm
Rate	1.25Gbps
Tx power	-3db~-6db
Rx sensitivity	<-28db
Fiber connector	LC
USB	
Version	Universal Serial Bus 2.0
Transmission rate	480Mbps
USB total load current	≤2A
Power supply voltage of the transmitter	5V
Power supply voltage of the receiver	12V
Single USB port supply current	>900mA
USB cable	<5 Meters
Physical interface	USB 2.0 Type A connector
Power	
Transmitter input voltage	DC 12V
Transmitter power consumption	<2.5W
Receiver input voltage	DC 5V
Receiver power consumption	<2.5W
Other	
The shell metal	Aluminium alloy
Product size	104*104*28mm
Net weight	0.35KG
Way to install	Wall-mounted type (desktop type)
Color	Black
Material of Packing	Kraft paper
Package size	275*220*55mm
Gross weight	0.7kg
Working temperature	-20°C ~75°C
Storage temperature	-40°C ~85°C
Relative humidity	From 5 to 95% (non-condensing)
Warranty	3 Years

➤ Dimension

Transmitter Indicator status description

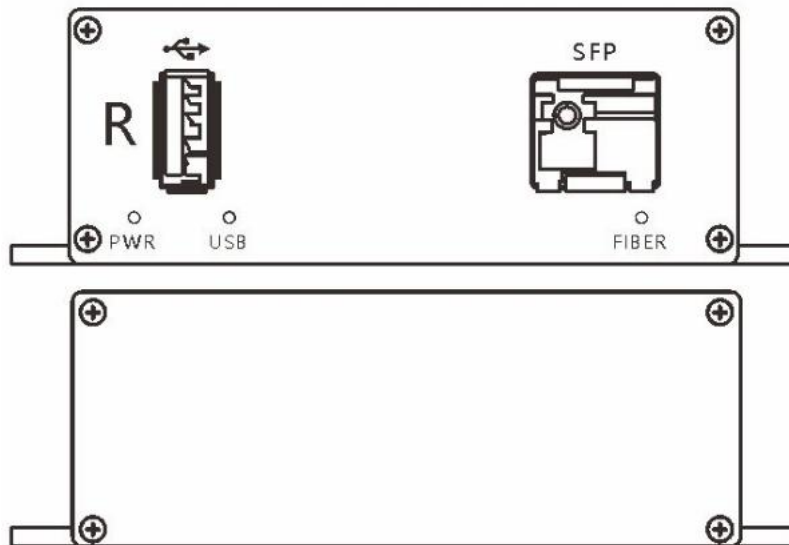


Indicator silk-screen printing	Description
PWR	On: The device is powered on
	Off: The device is powered off
FIBER	On: fiber signal
	Off: no fiber signal
USB 1	Slow flash: The USB device is recognized
	Off: The USB device is not recognized
USB 2	Slow flash: The USB device is recognized
	Off: The USB device is not recognized
USB 3	Slow flash: The USB device is recognized
	Off: The USB device is not recognized
USB 4	Slow flash: The USB device is recognized
	Off: The USB device is not recognized

Panel printed description

Panel printed	Function description
SFP	1.25G SFP fiber module
DC 12V	DC 12V power supply input

Receiver indicator status description

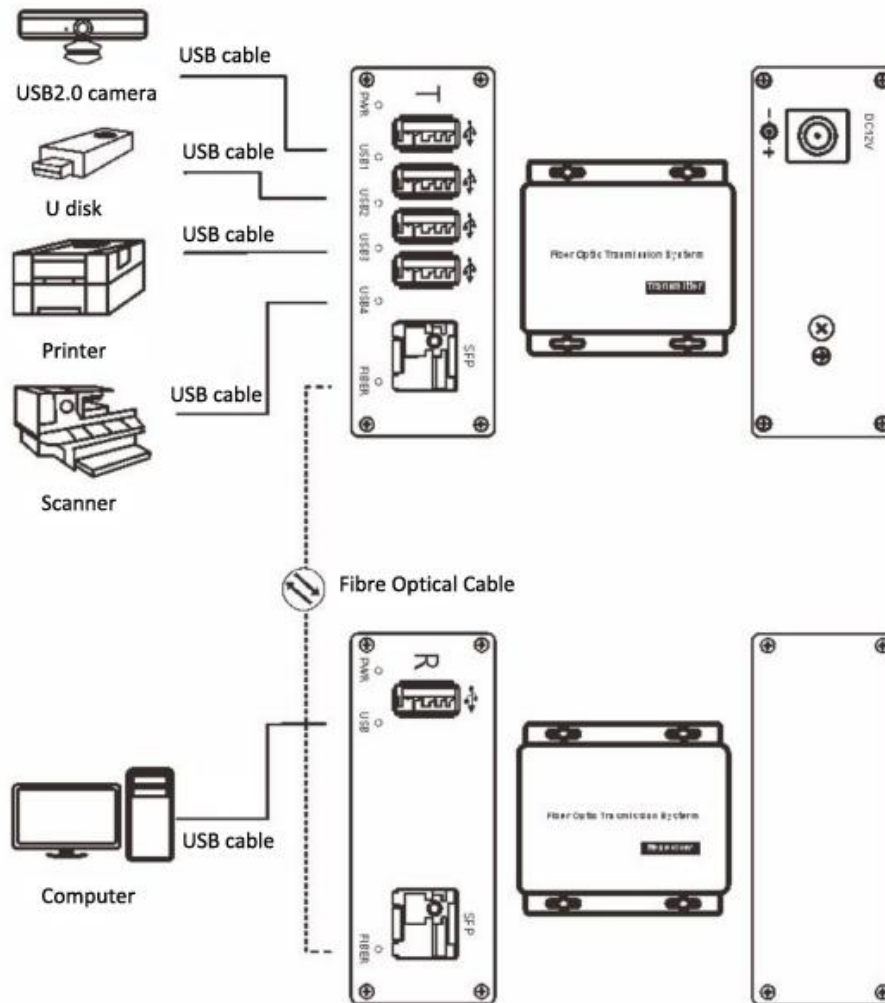


Indicator silk-screen printing	Function description
PWR	On: The device is powered on Off: The device is powered off
USB	Slow flash: The USB device is recognized Off: The USB device is not recognized
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Panel printed description

Panel printed	Function description
SFP	1.25G SFP module

➤ Application



➤ Ordering Information

Model NO.	Description
USB204	4-channel USB2.0 Fiber Optical Converter
USB324	4-channel USB3.2 Fiber Optical Converter

➤ Packing List

- Transmitter (slave T) *1
- Receiver (host R) *1
- 12V power adapter *1
- USB2.0 wire material
- User manual * 1
- Certificate of quality * 1
- Warranty card * 1

Attention

Lightning protection,static electricity and grounding:

It is recommended that when install the device,consideration should be given to the impact of grounding by lightning,and take prevention measures.Strong static electricity will damage the optical device and data chip in the equipment.It is recommended that when plug/unplug the data port of the optical converter,please disconnect the power supply of the optical converter first.Equipment housing is not waterproof,equipment installation box should be fully considered waterproof.

Fiber and optical components:

Be careful when plugging the optical fiber as optical components of the optical converter is very fragile,and it should avoid causing damage to the optical components.It should be noted that the light source produced by the optical components of the optical converter will be harmful to eyes,so do not have direct eye contact with the optical components of optical converter.If you need to detect the optical power of the optical converter,please use the optical power meter.

Equipment and installation procedures:

- Optical fiber installation:please carefully insert the optical fiber into the optical fiber interface of the optical terminal after confirming that the optical fiber link meets the installation requirements.
- Power amplifier audio signal cannot be directly sent to the transmitter,which will cause burn-in.
- Equipment installation:The equipment is used in pairs, which include a transmitter and a receiver,this information is clearly stated on the label and printed on the chassis of the equipment.