hasivo®

➤ **Manual for S500-1G-1GX**

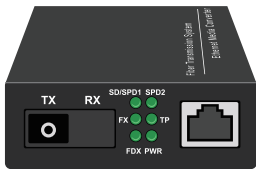**Gigabit Optical Fiber Transerver**

01 Product introduction

Product overview

hasivo independently developed S500-1G-1GX gigabit optical fiber transceiver.Comply with international standard and optical fiber cable is used as transmission medium.with high speed.long distance. strong anti-interference ability. Built in integrated optical port, the transmission distance can reach 20km. The equipment can facilitate the long-distance layout of enterprise projects, realize centralized network management, and reduce equipment and network failures.

Port performance

◆ Provide 1*10/100/1000M RJ45 port which can realize line speed forwarding.

◆ Provide 1*1000M integrated SC optical fiber interface(Optional Single fiber/Double fiver or Customized FC).

◆ Using WDM technology, The transmitting wavelength is 1310nm, The receiving wavelength is 1550nm, the max distance can be 20km.

◆ Each port supports MDI/MDIX automatic flip and duplex / rate self negotiation.

◆ Support IEEE 802.3x full duplex flow control and backpressure half duplex flow control.
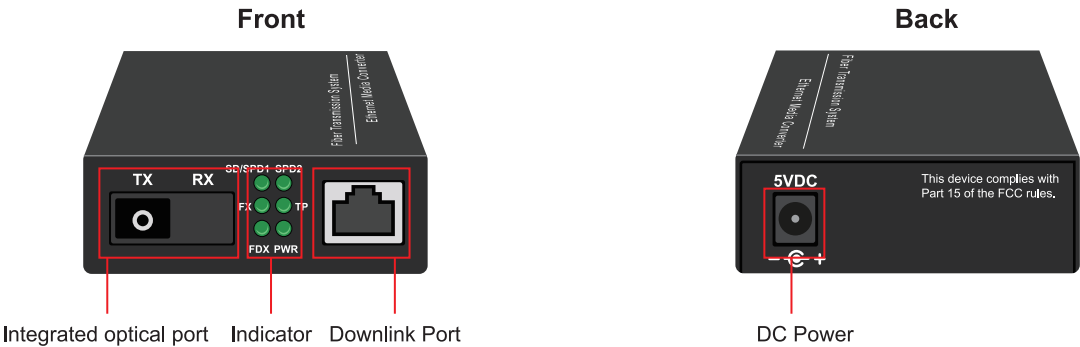
02 Spare parts list

Fiber Transerver

DC adapter

User manual+Warranty Card

Tips: *Integrated optical port with module, It can be paired with 1310A and 1550B to use.*

03 Product display

Front

Back

Integrated optical port   Indicator   Downlink Port

DC Power

Indicator definition:

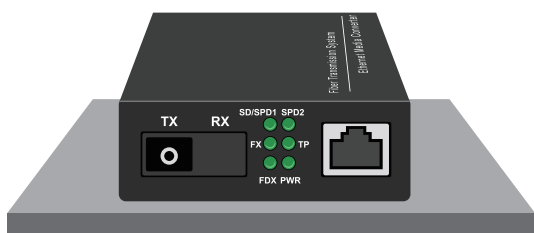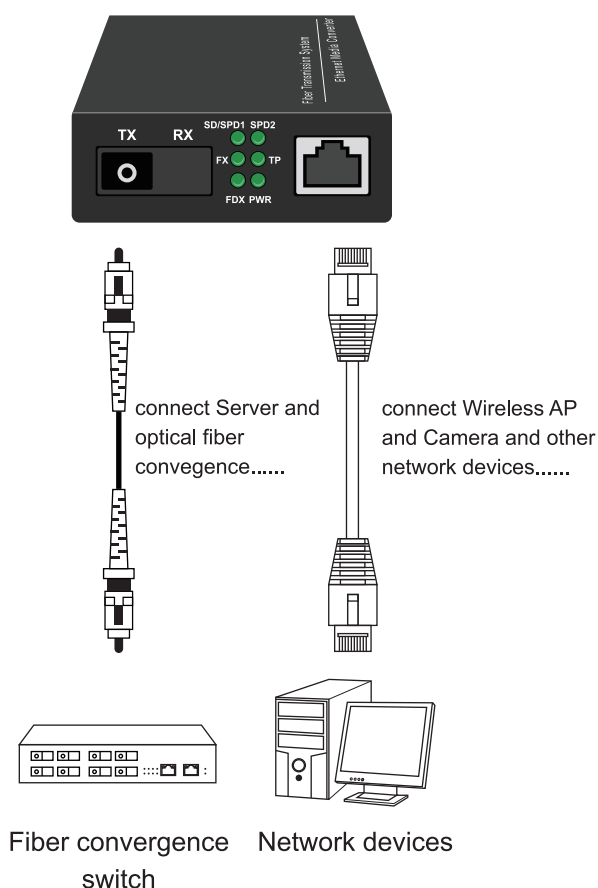| Indicator	Status	Description
电源指示灯：PWR	Green light is always on	Power on normal
	Always off	No power
FX	light is on	Fiber optic signal connected successfully
SD/SPD1	Light is flashing	The corresponding port has data transmission
TP	light is on	1000M Network signal connected
SPD2	Light is flashing	The corresponding port has data transmission
FDX	\	This light is extension indicator

Checking before installation

1.Check whether the accessories are complete. If there is any omission, please contact us.
2.Check whether the power supply voltage is consistent with the working voltage of the switch,so as to avoid the equipment burning out due to high voltage.
3.Ensure that the installation position of the switch has certain ventilation and heat dissipation conditions.
4.Please keep the power off during installation to avoid potential safety hazards.
5.Please install the switch on a stable plane to avoid falling and damage.
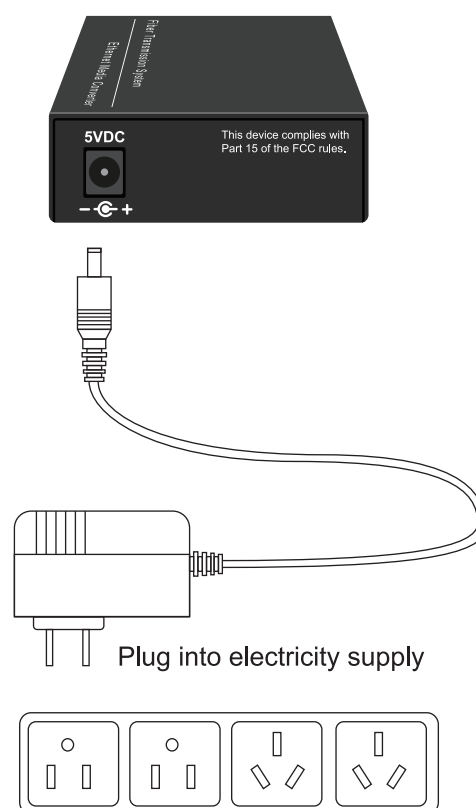
Install to desktop

1. Place the switch on the horizontal desktop in the ventilation area.
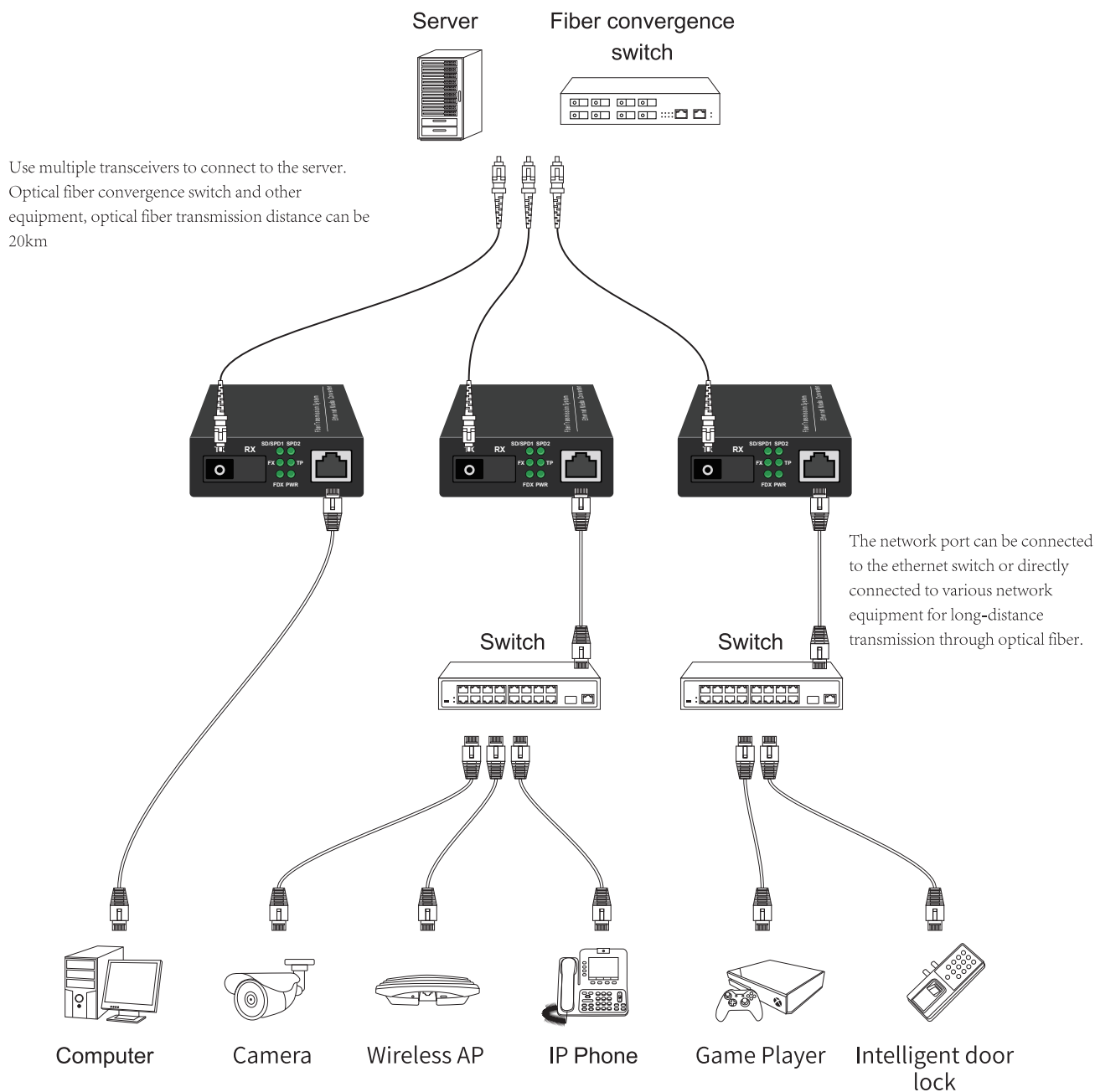

2.Insert cable and fiber optical connector

3.Connected the power

connect Server and optical fiber convegence......

connect Wireless AP and Camera and other network devices......

Plug into electricity supply

Fiber convergence switch   Network devices

Points of attention

1.Do not stack heavy objects on the switch to avoid danger.
2.In order to avoid the risk of electric shock, please do not open the machine box when the switch is working, even if it is not powered on, please contact us in case of any problem.
3.Before cleaning the switch, pull out the power plug of the switch. Do not wipe it with wet fabric or clean it with liquid.
4.If the power adapter is damaged, do not replace it with other power adapters. This switch should be equipped with original power adapter.

1.Multiplexing application

Server   Fiber convergence
                      switch

Use multiple transceivers to connect to the server.
Optical fiber convergence switch and other
equipment, optical fiber transmission distance can be
20km

RX   RX   RX

The network port can be connected
to the ethernet switch or directly
connected to various network
equipment for long-distance
transmission through optical fiber.

Switch   Switch

Computer   Camera   Wireless AP   IP Phone   Game Player   Intelligent door
                                                                          lock

2.Fiber to fiber application

NVR Recoder   TX RX   TX RX   Camera
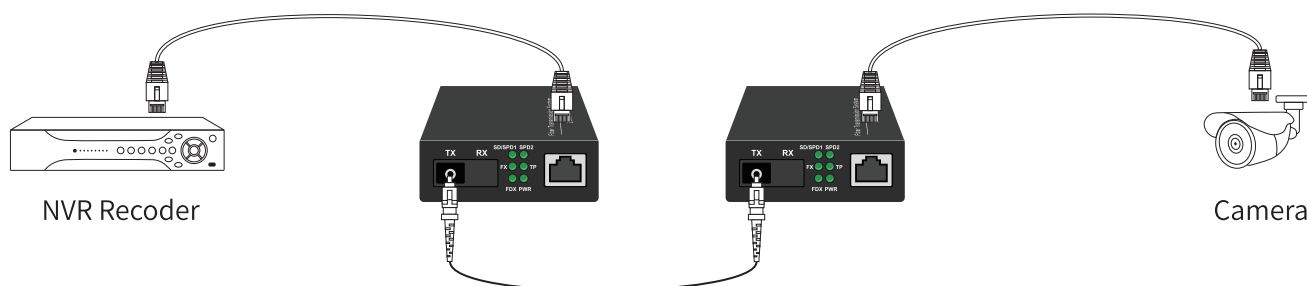
Two optical fiber transceivers are used for single channel optical fiber transmission to realize fast and direct transmission of network equipment data.

06 Common troubleshooting

⚠ *The PWR indicator is not on after the power is connected* ➔ *Check whether the power adapter and plug are connected correctly, whether the power cord is damaged, and whether the power adapter is damaged.*

⚠ *Switch cannot communicate after power up* ➔ *Check whether the switch indicator is on. If the indicator is off, the network cable is not connected. If the indicator is on, the communication fault is indicated.*

⚠ *Switch network speed suddenly become very slow* ➔ *Take off the plug and restart the switch.*

[If the above problems or other switch problems can not be solved, please contact us for technical support]

Model	S500-1G-1GX
Product	**Gigabit Ethernet 1+1 Fiber Switch**
Fixed Port	1*10/100/1000Base-TX RJ45 port (Data) 1*1000M Integrated SFP（optional 1310/1550）
Network Protocol	IEEE 802.3 IEEE 802.3i 10BASE-T IEEE 802.3u100BASE-TX IEEE 802.3ab1000BASE-T IEEE 802.3x IEEE 802.3z 100BASE-X
Port Specification	10/100/1000BaseT（X） Auto
Transmission Mode	Store and Forward（full wirespeed）
Bandwidth	2Gbps
Packet Forwarding	4.32Mpps
MAC Address	2K
Buffer	2.5M
Transmission Distance	10BASE-T ： Cat3,4,5 UTP(≤250 meter) 100BASE-TX ： Cat5 or later UTP(150 meter) 1000BASE-TX ： Cat6 or later UTP(150 meter) Single mode single fiber(MAX 20KM) Single mode double fiber (MAX 20KM) Multiple mode double fiber(MAX 850M/2KM) Optional 3-80KM SFP
Watt	≤3W
LED Indicator	PWR: Power LED SD/SPD1/FX:(Fiber optic signal LED） SPD2/TP:(Network signal LED） FDX:(Extension indicator)
Power	External Power DC：12V 0.5A
Operating Temperature/Humidity	-10～+55°C；5%～90% RH Non coagulation
Storage Temperature/Humidity	-40～+75°C；5%～95% RH Non coagulation
Product size/Packing size（L*W*H）	70mm*95mm*25mm 105mm*105mm*65mm
N.W/G.W（kg）	0.2kg/0.3kg
Installation	Desktop
Lightning protection level	3KV 8/20us； IP30
Certificate	CE mark, commercial；CE/LVD EN60950； FCC Part 15 Class B；RoHS；
Warranty	Whole device for 1 year(Accessories not included)

hasivo®

Sichuan hasivo electronics CO.,LTD.

Address: NO.5-2 Anping street, New District, Economic Development Zone, Meishan City,Sichuan Province,China.

Post code: 620010

Offical website: http://www.hasivo.com

After-sale service: 028-38288776

Technical service: 028-38119776