

# Product manual

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Ethernet 10G transceiver  
Ethernet 10G PoE transceiver

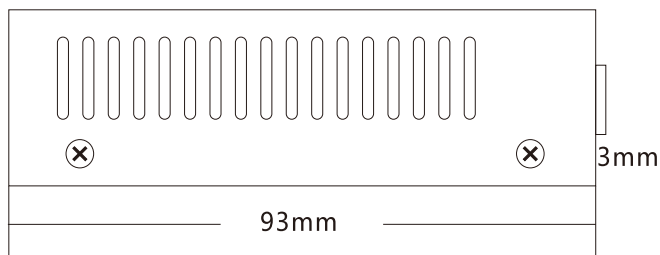
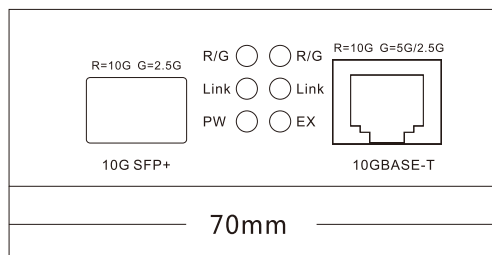
# Product Introduction

Ethernet 10G fiber optic transceiver is an Ethernet transmission medium conversion unit that converts short distance Ethernet cable electrical signals and long-distance optical signals into each other, suitable for long-distance data transmission and data aggregation applications; Plug and play, high compatibility, fiber optic transmission distance up to 3-120 kilometers; Fiber optic module supports: single-mode/multi-mode, single fiber/dual fiber.

## Characteristic

- ◆ Up to 100KM of data transmission can be achieved through fiber optic access
- ◆ Support port lightning protection
- ◆ Adopting a store and forward exchange mechanism
- ◆ All ports support line speed switching and giant frame transmission
- ◆ Zero configuration feature, automatically supplied to adaptive devices
- ◆ Panel indicator lights monitor working status and assist in fault analysis
- ◆ Supports IEEE802.3af/at/bt (limited to PoE BT series)

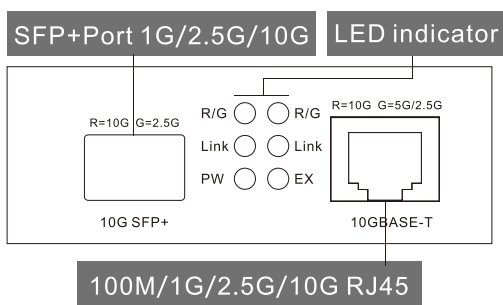
## Size display



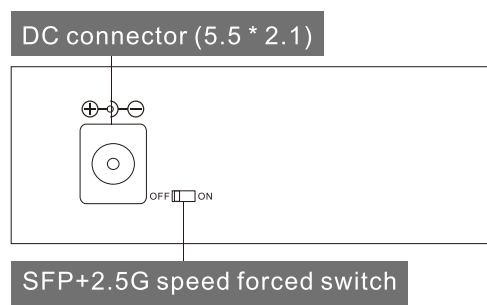
## Product Display

1\*10G RJ45 Port+ 1\*10G SFP Port

Front

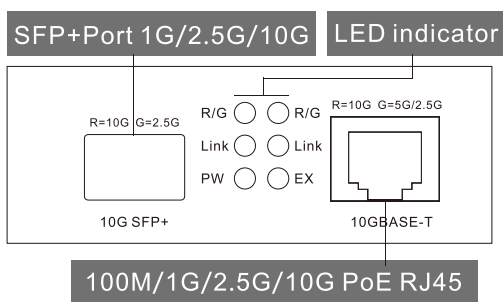


Back

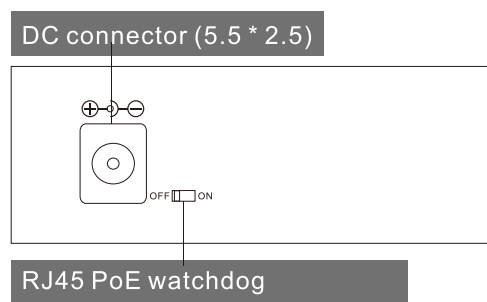


1\*10G PoE RJ45 Port+ 1\*10G SFP Port

Front



Back



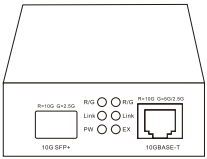
# Definition of indicator

indicator		state	description
Power indicator:PWR		on	Power on
		off	Power off
		blink	Port short circuit or excessive load current
right	Link	off	The corresponding optical port is not connected
		on	Corresponding optical ports have connections
		blink	Corresponding optical port connection and communication
	R/G	off	The corresponding optical port does not work in this mode
		on(red)	The corresponding optical port is connected and operates in 10G mode
		on(green)	The corresponding optical port is connected and operates in 2.5G mode
EX	Non-PoE	off	nothing
	PoE	off	nothing
		on	PoE Watchdog on
left	Link	off	The corresponding network port is not connected
		on	There is a connection to the corresponding network port
		blink	Corresponding network port connection and communication
	R/G	off	The corresponding network port does not work in this mode
		on(red)	The corresponding network port is connected and operates in 10G mode
		on(green)	The corresponding network port is connected and operates in 2.5G mode


# Product Supporting List

List of non PoE product accessories

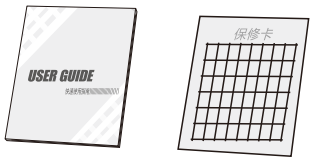
▶ One switch



▶ One adapter

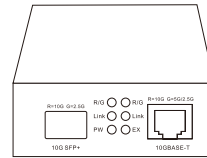


▶ A user manual and warranty card




PoE Product Supporting List

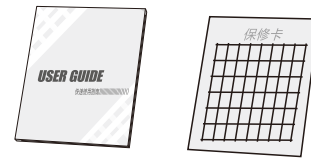
▶ One switch



▶ One external power cord+one adapter



▶ A user manual and warranty card



**⚠ Attention:** SFP models do not include optical modules by default. If you find any shortage or damage to accessories, please contact us promptly.

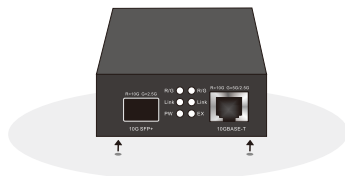
## Product installation and precautions

**For the safe installation and operation of the switch, we recommend that you:**

- Check if the power cord is securely wrapped around the AC power connector.
- Ensure proper heat dissipation and ventilation around the switch.
- Do not stack heavy objects on top of the switch.

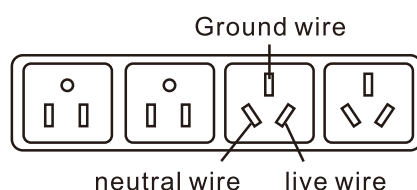
### Desktop installation

When installing a switch on the desktop, the device must be placed horizontally on the desktop and kept stable. Please leave enough space between the device and other surrounding objects for ventilation.



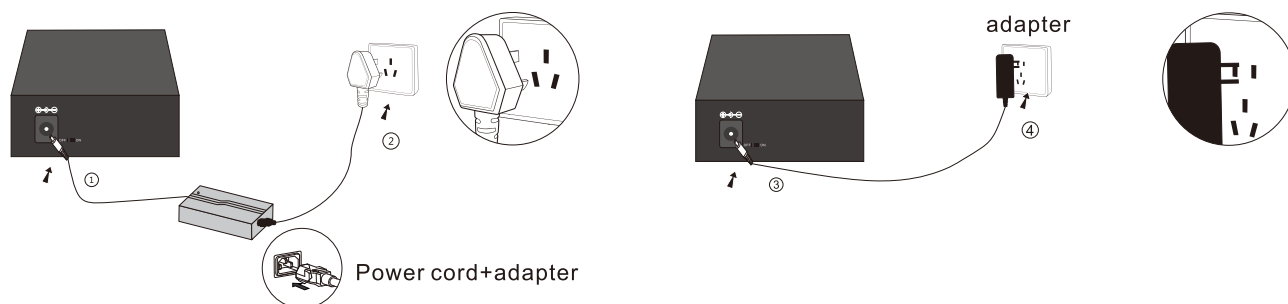
### Power socket specifications

The switch adapter adopts a two-wire power socket; The power cord adopts a single-phase three wire power socket, with the middle pin as the grounding wire, the left pin as the neutral wire, and the right pin as the live wire. Please check before operation.



### Connect the power cord

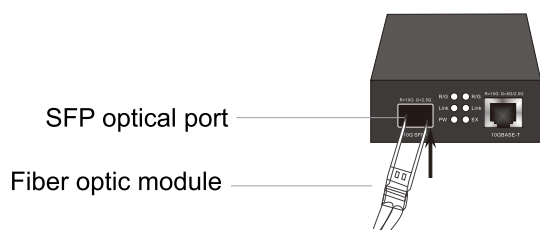
1. Check that the power supply matches the power supply indicated on the switch;
2. Adapter and power cord+adapter can be directly connected to AC 100~240V, 50/60Hz mains power.



### Connect SFP port

The process of installing fiber optic modules in switches is as follows:

Grasp the fiber optic module from the side and smoothly insert it along the SFP port slot of the switch until the fiber optic module is in close contact with the switch.

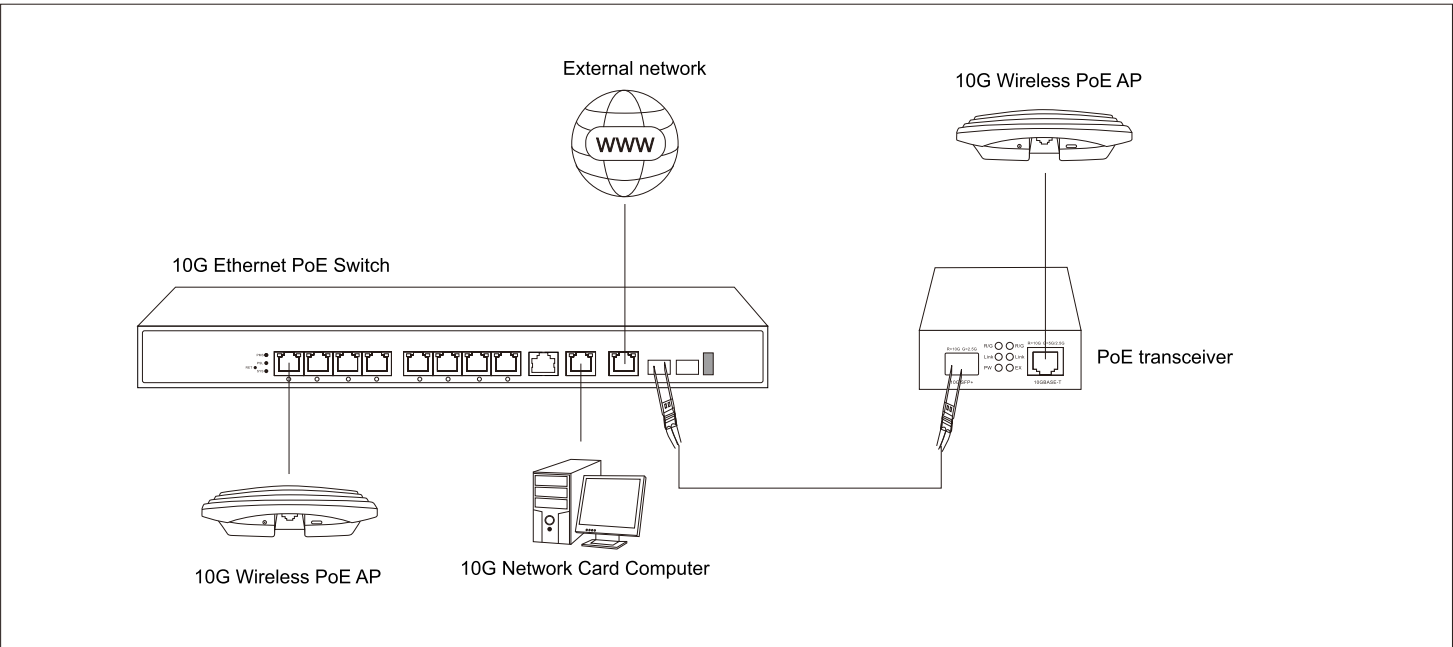
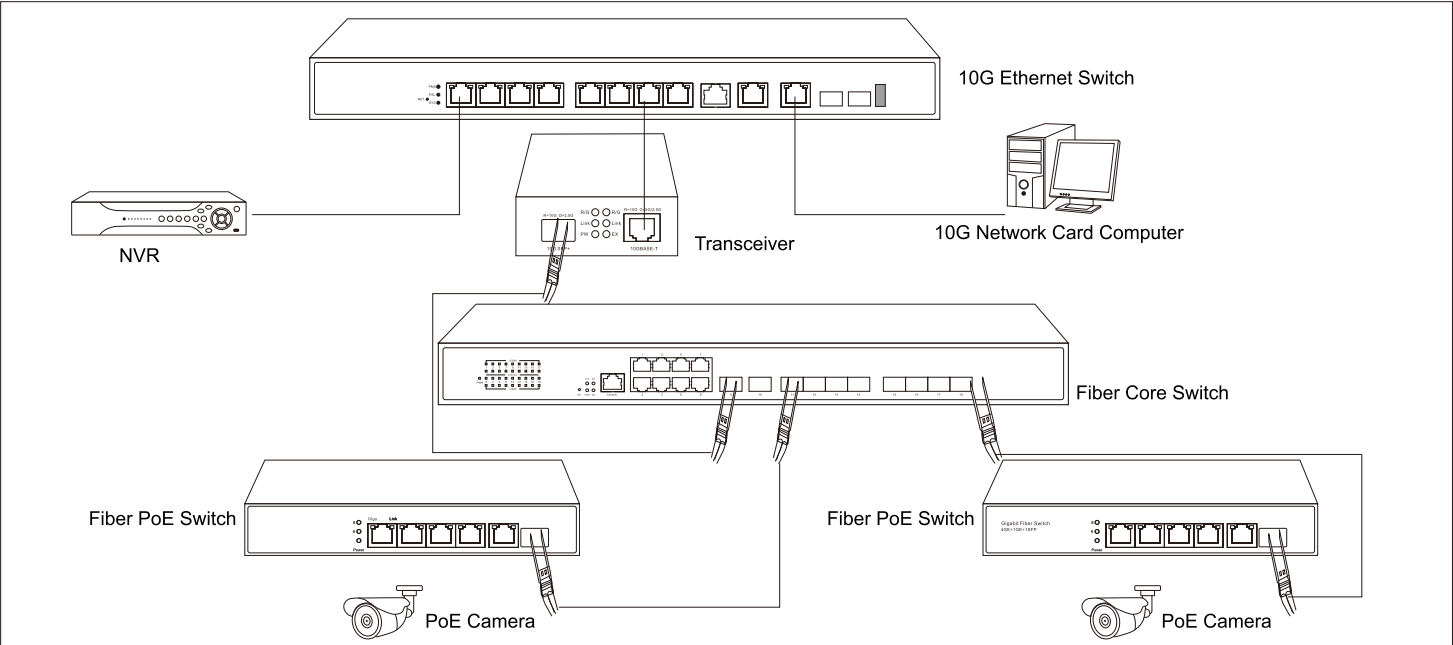
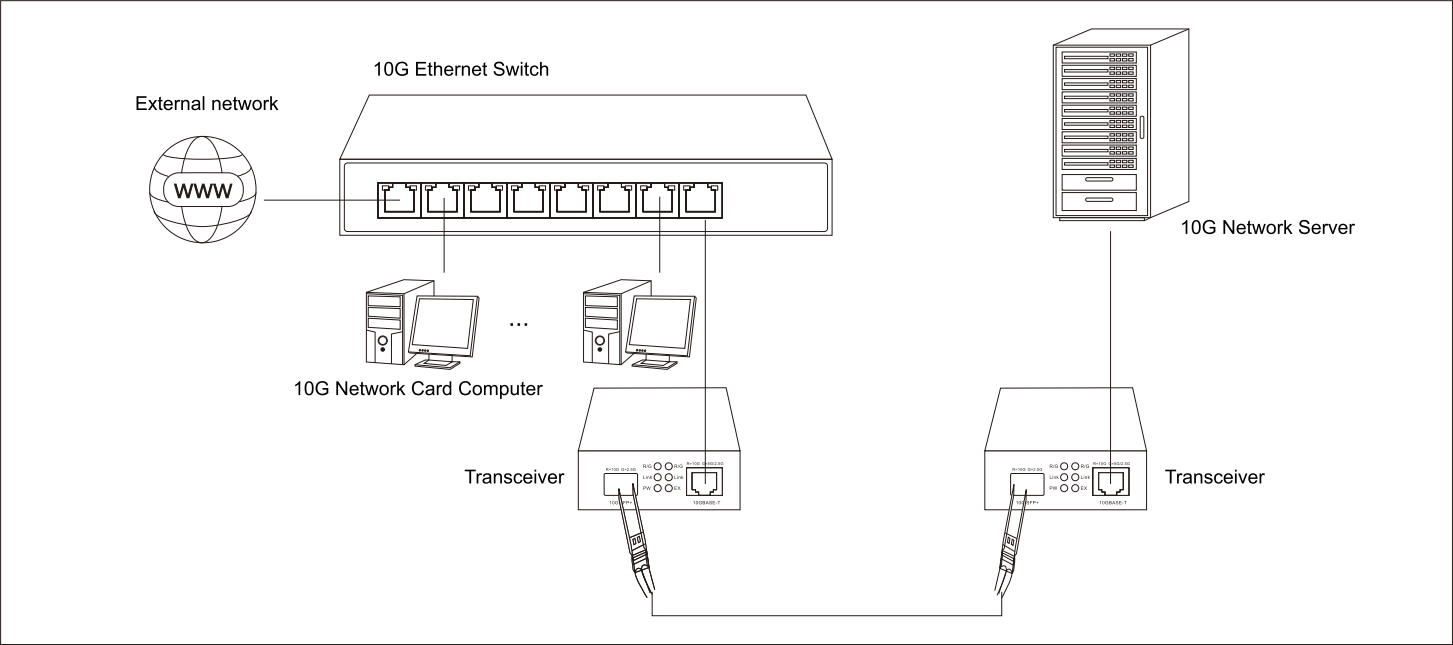


### Check after installation


Please check the following items after installation:

1. Check if there is sufficient heat dissipation space around the switch and if the air circulation is smooth;
2. Check if the power supply of the power socket meets the specifications of the switch;
3. Check that the power supply, switches, racks, and other equipment are properly grounded;

# Product application



# Product parameters

Model	S500-1XGT-1S+	S500P-1XGT-1S+(30W)	S500P-1XGT-1S+(90W)
Fixed Port	1*100M/1G/2.5G/5G/10G RJ45 1*1G/2.5G/10G SFP+	1*100M/1G/2.5G/5G/10G PoE RJ45 1*1G/2.5G/10G SFP+	1*100M/1G/2.5G/5G/10G PoE RJ45 1*1G/2.5G/10G SFP+
PoE Port		1 port supports IEEE802.3af/at MAX 30W	1 port supports IEEE802.3af/at MAX 90W
Bandwidth	40Gbps		
Packet Forwarding	29.76Mpps		
MAC Address	8K		
Packet Buffer	8.1M		
Jumbo frame	Max 12KB		
VLAN address	4K		
Function	1: Force fiber optic to reach 2.5G speed	1: PoE watchdog	
Transmission Distance	100BASE-TX:Cat5 or later UTP(150 m) 2500/1000BASE-TX:Cat6 or later UTP(100 m) 5G BASE-TX:Cat6 or later UTP(80 m) 10G BASE-TX:Cat6 or later UTP(50 m) SFP:100M/1G/2.5G/10G single-mode multimode optical module, maximum distance = 120km (depending on optical module)		
LED Indicator	PW: Power indicator light Left Link: Light port Link/Act indicator light Left R/G: Optical port status indicator light (red 10G mode; green 2.5G mode) EX: nothing Right Link: Network Port Link/Act Indicator Light Right R/G: Network port status indicator light (red 10G mode; green 2.5/5G mode)	PW: Power indicator light Left Link: Light port Link/Act indicator light Left R/G: Optical port status indicator light (red 10G mode; green 2.5G mode) EX: Watchdog indicator light Right Link: Network Port Link/Act Indicator Light Right R/G: Network port status indicator light(red 10G mode; green 2.5/5G mode)	
Power input	DC12V 1A (5.5*2.1mm)	DC52V 0.6A (5.5*2.5mm)	DC52V 2.5A (5.5*2.5mm)
Operating Temperature /Humidity	-20~+60°C;5%~90% RH Non coagulation		
Storage Temperature /Humidity	-40~+85°C;5%~95% RH Non coagulation		
Product size/Packing size(L*W*H)	70mm*93mm*28mm 203mm*98mm*39mm		
N.W/G.W(kg)	0.2kg/0.75kg		
Lightning protection level	6KV 8/20us IP30		
Installation	Desktop or DIN installation method		
Certificate	CE-EMC EN55032 ; CE-LVD EN62368 ; FCC Part 15 Class B ; RoHS		
Warranty	Whole device for 1 year(Accessories not included)		