16-Port Gigabit PoE+ 2-Port Gigabit SFP Unmanaged Ethernet Switch
22-Port Gigabit PoE+ 2-Port Gigabit Combo Unmanaged Ethernet Switch
User Manual

Packing List

Please check the following items after unpacking, if any missing, please contact your local dealer.

| Items	Quantity
Switch	1 pc
AC Power Cable	1 pc
Mounting Accessory	1 set
User Manual	1 pc

Product Overview

This series switches is16-Port Gigabit PoE+ 2-Port Gigabit SFP Unmanaged Ethernet Switch and 22-Port Gigabit PoE+ 2-Port Gigabit Combo Unmanaged Ethernet Switch.
This series switches support 4 working modes: default mode, QoS mode, CCTV mode and VLAN mode. It can be widely used in video security monitoring systems, network projects, etc.
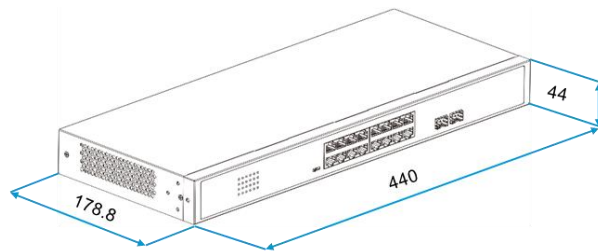This series contains three types:
• 16-Port Gigabit PoE+ 2-Port Gigabit SFP Unmanaged Ethernet Switch
• 22-Port Gigabit PoE+ 2-Port Gigabit Combo Unmanaged Ethernet Switch (250W/410W)
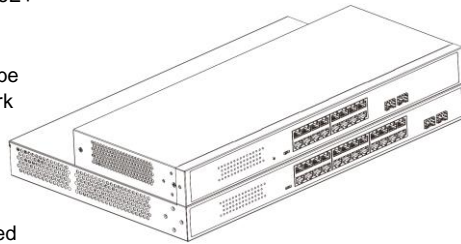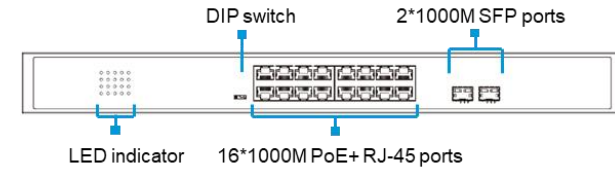

Appearances and Dimensions

16-Port Gigabit PoE+ 2-Port Gigabit SFP Unmanaged Ethernet Switch
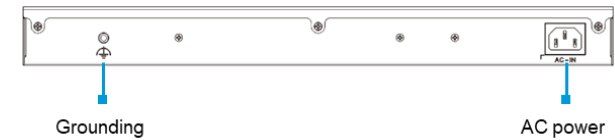
Dimensions (mm)

Front Panel

DIP switch   2*1000M SFP ports
LED indicator   16*1000M PoE+ RJ-45 ports

Rear Panel

Grounding   AC power
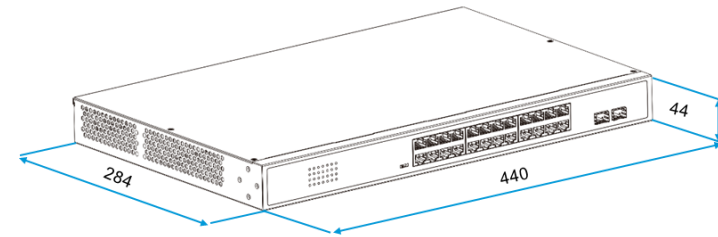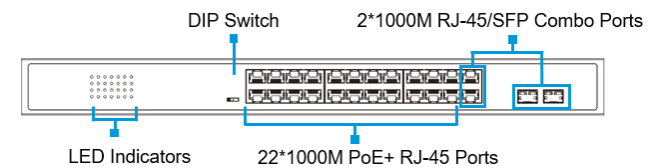
22-Port Gigabit PoE+ 2-Port Gigabit Combo Unmanaged Ethernet Switch (250W/410W)

Dimensions (mm)

284   440   44

Front Panel

DIP Switch   2*1000M RJ-45/SFP Combo Ports
LED Indicators   22*1000M PoE+ RJ-45 Ports

Rear Panel

Grounding   AC power

▊ Installation Steps

1) Before installation, power off the equipment. Installation when device is powered on is prohibited.
2) The switch supports rack mounted and desktop installation. Following with the rack-mounted installation steps:

Step 1: Fix the hangers on the side of the switch.	Accessories
	L-brackets Screws
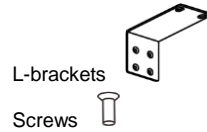
Step 2: Install the switch on the rack. The distance between the devices should be more than 5cm.

Distance >5cm
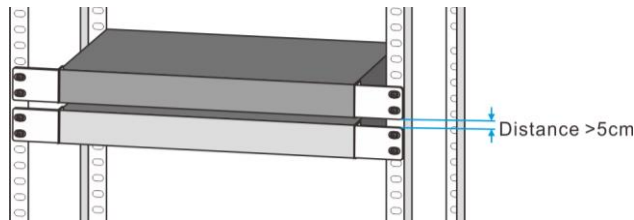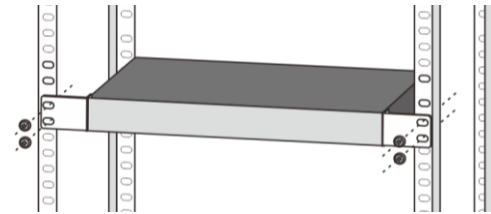
3) After step 2) is completed, please use Cat5 or better cables to connect the switch and the device.
4) Check the installation and the wiring, after confirming that the connection is correct and reliable, power on the switch.

The installation is completed.

▊ CAUTION

- Power on the system only after confirming that the wiring is correct, to avoid damage to the equipment. It is recommended to use the power adapter and AC power cable to in the package to connect the power supply.
- For better transmission performance, it is recommended to use Cat5 or better cables to connect the switch and powered devices.
- For better protection performance, it is recommended always to make the ground connection first and disconnect it at the end when operating the device.
- Before operating or maintaining the switch, please read the user manual carefully to avoid equipment damage caused by disoperation.

▊ Specifications

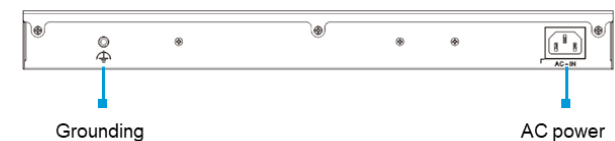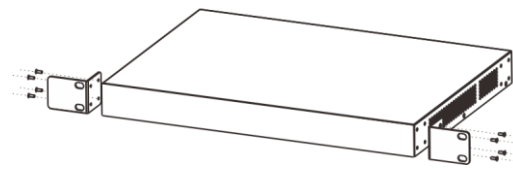| Items	16-Port Gigabit PoE+ 2-Port Gigabit SFP Unmanaged Ethernet Switch	22-Port Gigabit PoE+ 2-Port Gigabit Combo Unmanaged Ethernet Switch (250W)	22-Port Gigabit PoE+ 2-Port Gigabit Combo Unmanaged Ethernet Switch (410W)
Hardware Specifications			
Downlink Port	16*10/100/1000Base-T PoE+ RJ-45(Auto-MDI/MDI-X)	22*10/100/1000Base-T PoE+ RJ-45(Auto-MDI/MDI-X)	
Uplink Port	2*1000Base-X SFP	2* Gigabit Combo Ports(SFP Port is prior to RJ-45 Port)	
Led Indicators	1*Power, power supply indicator		
	1*PoE-Max, PoE power indicator		
	16*Link/Act, port state indicators	24*Link/Act, port state indicators	
	2*SFP port state indicators		
Dimensions (W*D*H)	440mm*178.8mm*44mm	440mm*284mm*44mm	
Input Voltage	100~240V AC, 50~60Hz		
Power Consumption	≤250W (Full load including PoE)		≤410W (Full load including PoE)
Material	Metal shell		
Installation	Rack/Desktop/Wall mounted		
Switch Property			
Standards	IEEE 802.3, IEEE 802.3u, IEEE 802.3ab, IEEE 802.3x, IEEE 802.3z, IEEE 802.3af, IEEE 802.3at		
Forwarding Modes	Store and Forward		
MAC Table	8k, support auto learning		
Switching Capacity	128Gbps / non-blocking	156Gbps / non-blocking	
Power Supply			
PoE Standard	IEEE 802.3af/at		
PoE Power Supply Type	End-span		
PoE Pin Assignment	1/2/4/5(+), 3/6/7/8(-)		
PoE Budget	30W max for each port, 230W max for whole switch		30W max for each port, 370W max for whole switch
Reliability			
Port Lightning Protection	6kV		
Operating	-10℃~50℃, 10%~90% (Non-condensation)		
Storage	-40℃~70℃, 5%~90% (Non-condensation)		
Features			
Switch Mode	**Default mode:** Switches in this mode can function as a core switch and all the ports can communicate with each other. **QoS mode:** 18-Port switch port 15, 16, SFP1 and SFP2 serve as uplink ports, ports 1-8 serve as high priority port. All ports can communicate with each other separately. 24-Port switch port 23, 24, SFP1 and SFP2 serve as uplink ports, ports 1-8 serve as high priority port. All ports can communicate with each other separately. **CCTV mode:** 18-Port switch transmission distance of ports 9-14 is extended up to 250m, but the data rate is limited to 10Mbps. 24-Port switch transmission distance of ports 17-22 is extended up to 250m, but the data rate is limited to 10Mbps. **VLAN mode:** 18-Port switch ports 1-14 are isolated from each other but able to communicate with ports 15, 16, SFP1 and SFP2. 24-Port switch ports 1-22 are isolated from each other but able to communicate with ports 23, 24, SFP1 and SFP2.		