

# 16-Port 100M PoE+ 2-Port 1000M RJ45 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

The product is 16-Port 100M PoE+ 2-Port 1000M RJ45 Ethernet Switch.

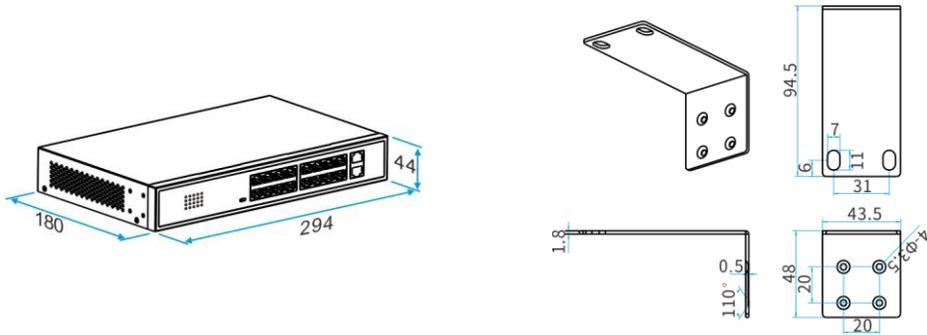
The switch provides 16 100M Ethernet RJ-45 downlink ports and 2 Gigabit Ethernet RJ-45 uplink ports. All RJ-45 downlink Ethernet ports support Power-over-Ethernet (PoE+) and deliver up to 30W power per port.

The switch supports 3 working modes through DIP switch: Default, VLAN and CCTV. It can be widely used in video security monitoring systems, network projects, etc.



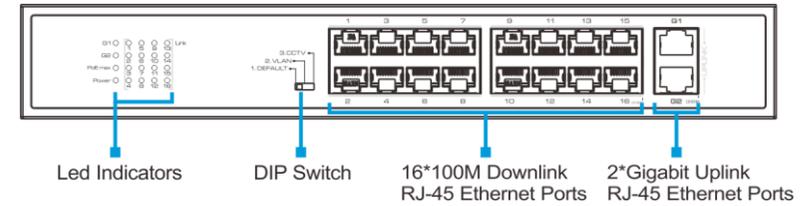
### Appearances and Dimensions

#### Dimensions (mm)

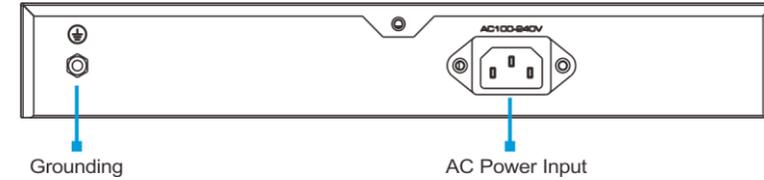


## 16-Port 100M PoE+ 2-Port 1000M RJ45 Ethernet Switch

### Front Panel



### Rear Panel



### Indicators

Indicators	Status	Descriptions
Power	Power supply indicator	On Power supply is on
		Off Power supply is off.
Link1~16	Downlink Ethernet ports link indicators	On The port is linking normally.
		Blink The port is transmitting or receiving data.
		Off The port links down.
G1, G2	Uplink Ethernet ports link indicators	On The port is linking normally.
		Off The port links down.
PoE Max	PoE Power Limit Indicator	On When the total PoE power provided by the ports exceeds 130W, the indicator lights up. When the total PoE power provided by the ports exceeds 135W, the device will stop the PoE of the port with the largest port number.
		Off When the total PoE power provided by the ports does not exceed 130W, the indicator turns off.

#### Note:

The total PoE power that the PoE ports can provide is 135W. If it exceeds 135W, the PoE of the port with the maximum port number will be cut off. In this case, please use a lower power device to replace the original one, or take other measures to ensure the total PoE power less than 135W. And users need to re-plug one of the other normal connection ports to restore the PoE of the port whose power is cut off.

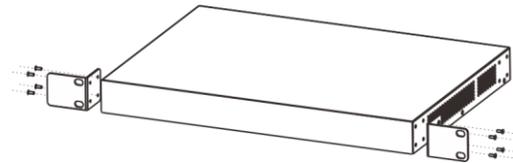
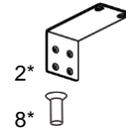
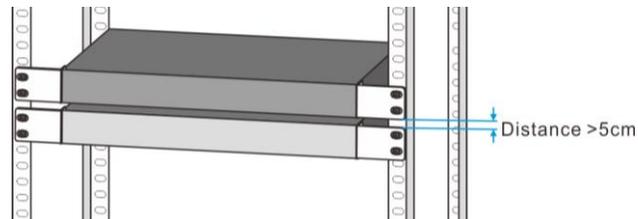
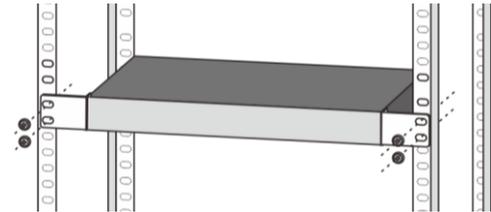
### DIP Switch

The support supports three working modes through DIP switch.

Interfaces	Descriptions
Default	All ports are free to communicate, transmission distance: 0~100m.
VLAN	Downlink ports are isolated from each other, but can communicate with uplink ports. Transmission distance: 0~100m. Under this mode, the PoE watchdog function is enabled.
CCTV	The transmission distance is extended up to 250m, but the rate is limited to 10Mbps. Under this mode, the PoE watchdog function is enabled.

**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****Step 2: Install the switch on the rack. The distance between the devices should be more than 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.
- Each PoE RJ-45 port can provide a maximum power of 30W for a powered device. Please do not connect to a powered device with a power exceeding 30W.
- Before operating or maintaining the switch, please read the user manual carefully to avoid equipment damage caused by misoperation.

**Specifications**

Items	16-Port 100M PoE+ 2-Port 1000M RJ45 Ethernet Switch
<b>Hardware Specifications</b>	
Downlink Ports	16*10/100Base-TX PoE+ RJ-45 (Auto-MDI/MDI-X)
Uplink Ports	2*10/100/1000Base-T RJ-45 (Auto-MDI/MDI-X)
Led Indicators	1* power supply indicator, 1* PoE max indicator 16* downlink port indicators, 2*uplink port indicators
Cable	Cat5 or better
Dimensions (W*D*H)	294mm*180mm*44mm
Net Weight	1.6kg
Input Voltage	100-240V AC
Power Consumption	≤15W (Not include PoE)
Installation	Rack-mounted/wall-mounted
Material	Metal shell
<b>Switch Property</b>	
Forwarding Modes	Store and Forward
Switching Capacity	7.2Gbps / non-blocking
Packet Forwarding Rate	5.4Mpps
MAC Table	8k, supported auto learning
Packet Buffer	4Mbit
<b>PoE</b>	
PoE device	Endpoint PSE (Power Sourcing Equipment)
PoE Standard	IEEE 802.3af/at
PoE Pin Assignment	1/2(+), 3/6(-)
PoE Power Output	52V DC
PoE Budget	30W max for each port, 135W max for whole switch
<b>Standard Conformance</b>	
Standards Compliance	IEEE 802.3 Ethernet IEEE 802.3u Fast Ethernet IEEE 802.3ab Gigabit Ethernet IEEE 802.3x Flow Control IEEE 802.3af Power Over Ethernet IEEE 802.3at Power Over Ethernet
<b>EMC</b>	
EMC	FCC 47 CFR Part 15 Class A EN55032 Class A IEC61000-4-2, Level 3: Contact Discharge: ±6kV, Air Discharge: ±8kV IEC61000-4-3, Level 2: 3V/m IEC61000-4-4, Level 2: 1kV IEC61000-4-5, line to earth: 6kV IEC61000-4-6, Level 2, (0.15MHz~80MHz)
<b>LVD</b>	
LVD	EN 62368-1:2014 EN 62328-A11:2017
<b>Environments</b>	
Operating	Temperature: -5°C~45°C Relative Humidity: 5%~95% (Non-condensation)
Storage	Temperature: -40°C~75°C Relative Humidity: 5%~95% (Non-condensation)
<b>Certifications</b>	
Certifications	CE, FCC

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