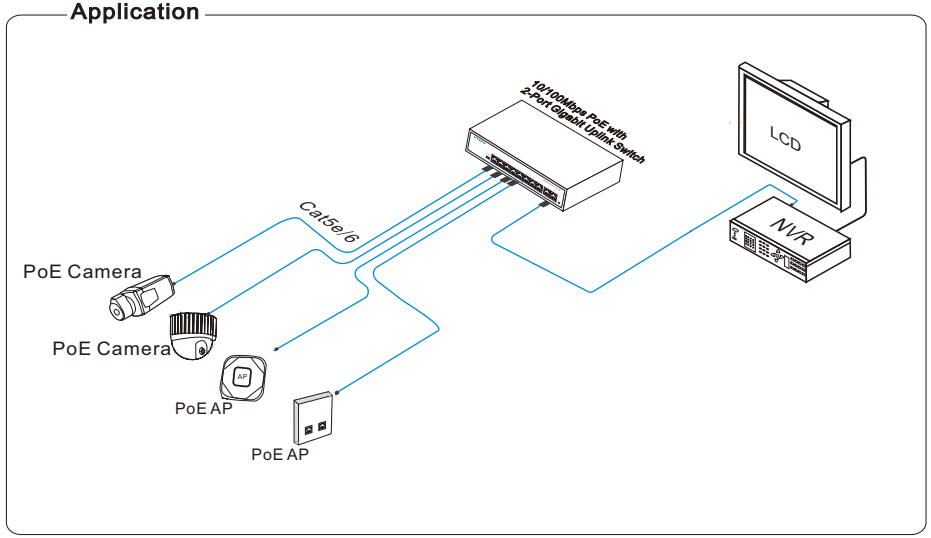
8/16/24-Port 10/100Mbps PoE with 2-Port Gigabit Uplink Switch
User Manual

13.238.101.1719
V1.0

The series switches provide 8/16/24*10/100Mbps RJ45 ports and 2*10/100/1000Mbps RJ45 ports, which are widely used in HD video monitoring system and network project etc. PoE ports 1~8/16/24 accord with IEEE802.3af/at standard, and each portsupport max. 30W PoE output. Equipped with protection circuit against surge and ESD, the immunity is up to 6KV. The switches support 3 operating modes (Default, VLAN, CCTV) and fully meet the application requirement of security network video monitoring & networking project in hotel, campus, and small- & medium-sized enterprise.

Application



Feature

- Providing 8/16/24*10/100Mbps RJ45 ports + 2*10/100/1000Mbps Uplink ports.
- Support IEEE802.3, IEEE802.3u, IEEE802.3ab, IEEE802.3X, IEEE802.3af/at.
- Support 8/16/24* PoE ports, max PoE power output is 30W.
- One-key smart: Default, CCTV, VLAN.
- 6KV surge immunity, ESD protection.
- Operating temperature: -10℃~45℃.
- Plug and play, user-friendly operation. Support installation of desktop, wall mounted, and rack mounted.

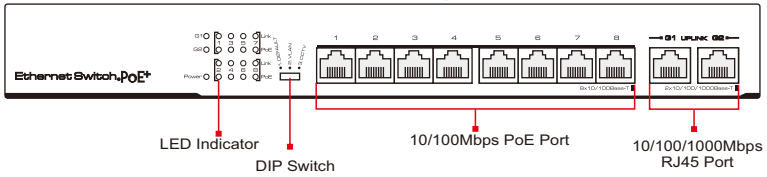
Notice

It is recommended to use the standard Cat5e/6 network cable to reach the optimal transmission distance.

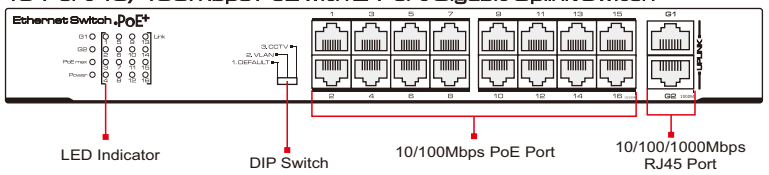
Board Diagram

Front

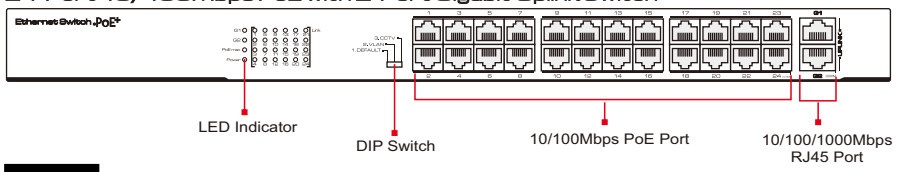
8-Port 10/100Mbps PoE with 2-Port Gigabit Uplink Switch



16-Port 10/100Mbps PoE with 2-Port Gigabit Uplink Switch



24-Port 10/100Mbps PoE with 2-Port Gigabit Uplink Switch



Back

Installation Steps

Please check the following items before installation, if it is missing, please contact the dealer.

● PoE Switch	1pc
● Power Cable	1pc
● Mounting Kits	2pcs
● User Manual	1pc

Please follow installation steps as below:

1) Please turn off the signal source and the device's power, installation with power on may damage the device;
2) Use 8pcs network cables to connect 8pcs IP cameras with the product's1~8 RJ45 Ethernet ports;
3) Use another network cable or (optical fiber) to connect switch's UPLINK port with NVR or computer;
4) Connect switch with power adapter;
5) Check if the installation is correct and device is good, make sure all the connection is reliable and power up the system;
6) Make sure every network device power supply works normally.

Specification

Item	Description		
Model	8-Port 10/100M PoE Switch	16-Port 10/100M PoE Switch	24-Port 10/100M PoE Switch
Downlink Port	8*10/100Base-T(PoE)	16*10/100Base-T(PoE)	24*10/100Base-T(PoE)
Uplink Port	2*10/100/1000Base-T		
Network Protocol	IEEE 802.3/802.3u/IEEE802.3ab/IEEE802.3z/IEEE802.3x		
Switch Fabric	5.6Gbps	7.2Gbps	8.8Gbps
Forwarding Rate	4.05Mpps	5.2Mpps	6.4Mpps
Forward Mode	store and forward		
Buffer Cache	4M	2.75M	2.75M
MAC Address List	16K	8K	8K
PoE Standard	802.3af/at(PSE)		
PoE Pin Assignment	1/2(+),3/6(-)		
PoE Power (Function)	PoE(Single port)≤30W(54V DC) Total PoE Budget≤115W	Port 1-16: PoE Watchdog PoE(Single port)≤30W(54V DC) Total PoE Budget≤135W	Port 1-24: PoE Watchdog PoE(Single port)≤30W(54V DC) Total PoE Budget≤225W
DIP Switch	Default：All port could communicate freely.		
	VLAN: The all downlink ports could only communicate with Uplink port.		
	CCTV: The speed of downlink port is limited to 10M, but the transmission distance is extended to 250 meters.		
Surge Protection	6KV, Per: IEC61000-4-5		
ESD Protection	6KV: contact/8KV: air discharge, Per: IEC61000-4-2		
Input Voltage	200~240 Vac - 50~60 Hz	100~240 Vac -50~60 Hz	
Power Consumption	<10W		
Operation Temperature	0℃~+40℃		
Storage Temperature	-40℃~+85℃		
Operation Humidity	5%-95% Non-condensing		
Dimension (L*W*H)	294×180×44mm		440x180x44mm
Weight	2kg		2.32kg

Products are subject to change without prior notice

Trouble Shooting

Please find the following solution when the device doesn't work

- Please confirm if the installation is correct,
- Please confirm if the RJ45 cable order is in accordance with the EIA/TIA568A or 568B industry standards,
- It can not exceed the maximum watts of each port,60W for port 1 and 30W for port 2 to 4,
- Please replace a failure device with a normal one to check if the device is broken,

If the problem still exist, please contact the factory.

Notice

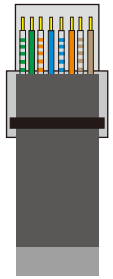
1. The equipment must connect anti-thunder ground, otherwise equipment protection will greatly reduced, please use 20AWG or thicker wire to connect grounding terminal to the ground.
2. After dialing the DIP switch, the device needs to be re-boot to enter the corresponding working mode.

RJ 45 Making Method

Instruments to be used: wire crimper, network tester. Wire sequence of RJ45 plug should conform with EIA/TIA568A or 568B.

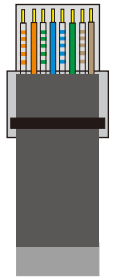
1) Shuck off about 2cm long the insulating layer, and bar the 4 pairs UTP cable;
2) Depart the 4 pairs UTP cable and straighten them;
3) Line up the 8 pieces of cables per EIA/TIA 568A or 568B;
4) Cut out 1.5 cm cable wrap and leave the bare wire;
5) Plug 8 cables into RJ45 plug, make sure each cable is in each pin;
6) Then use wire crimper to crimp it;
7) Follow the 5 steps above to make the another end, following the same sequence of the first plug;
8) Using network tester to test the cable whether is working.

pin	color
1	white/green
2	green
3	white/orange
4	blue
5	white/blue
6	orange
7	white/brown
8	brown



EIA/TIA 568A

pin	color
1	white/orange
2	orange
3	white/green
4	blue
5	white/blue
6	green
7	white/brown
8	brown



EIA/TIA 568B

Notice

- When choose RJ-45 make sure if one end is EIA/TIA568A,the other end should also be EIA/TIA568A.
- When choose RJ-45 make sure if one end is EIA/TIA568B,the other end should also be EIA/TIA568B.