

# Quick Start Guide



## 16-Port Gigabit Unmanaged PoE+ Switch

## 1 Features

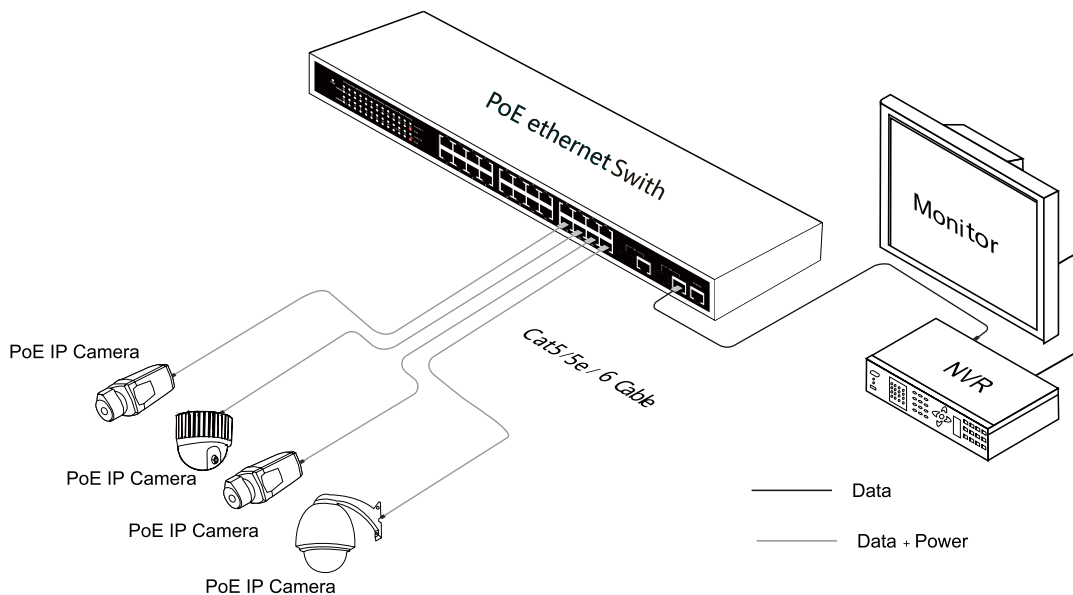
- Conforms to IEEE 802.3, IEEE 802.3u, IEEE 802.3ab, IEEE 802.3z, IEEE 802.3af, IEEE 802.3at.
- Provides 16 10/100/1000Base-T ports and 2 Gigabit Combo ports.
- Provides 16 PoE+ injector and 250W Built-in power supply.
- High back-plane bandwidth 36 Gbps.
- IEEE 802.3x Flow control
- 6KV Surge protection



**Notice:** The transmission distance is related to the connected cable. Standard Cat5e/6 network cable and the quality of camera will help maximize the furthest distance possible.

## 2 Product Introduction

The 16-Port PoE Gigabit Ethernet Switch is tailored for security monitoring applications, offering seamless integration with HD surveillance systems and Ethernet projects. Engineered with specialized features to meet the demands of security monitoring, this product boasts rapid packet forwarding capabilities. Its gigabit transfer rates ensure ample bandwidth for high-definition video, guaranteeing crisp images and uninterrupted transmission.



## 3 Specifications

|                | Item                    | Description                                                                      |
|----------------|-------------------------|----------------------------------------------------------------------------------|
| Power          | Power supply            | Built-in power supply                                                            |
|                | Voltage Range           | AC100~240V                                                                       |
|                | Consumption             | 250W for 16 PoE                                                                  |
| Ethernet       | Speed                   | 1~16 Port: 10/100/1000Mbps<br>17~18: Gigabit Combo                               |
|                | Transmission Distance   | 100Meter(328ft)for RJ-45<br>2Km 20Km for SFP Port The optical module is optional |
|                | Ethernet Standard       | IEEE802.3/802.3u/802.3ab/802.3z/802.3af/802.3at                                  |
| Network Switch | Switching capacity      | 36G                                                                              |
|                | Transfer Rate           | 14,880pps for 10Mbps                                                             |
|                |                         | 148,800pps for 100Mbps                                                           |
|                |                         | 1,488,000pps for 1000Mbps                                                        |
| LINK / ACT     | MAC Address             | 8K MAC address table                                                             |
|                | On                      | Green                                                                            |
|                | Blinks                  | -                                                                                |
| POE            | Off                     | -                                                                                |
|                | On                      | Green                                                                            |
|                | Off                     | -                                                                                |
|                | PoE pin assignment      | V-(RJ45 Pin 1,2), V-(RJ45 Pin 3,6)                                               |
| Enviro-nment   | Working Temperature     | 0~40 °C                                                                          |
|                | Storage Temperature     | -40~70 °C                                                                        |
|                | Humidity Non condensing | 0~90%                                                                            |
| Mecha-nical    | Dimension               | 440 x 200 x 44mm                                                                 |
|                | Color                   | Black                                                                            |

Specification change will not be noticed

## 4 Installation Steps

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

- 16-Port Gigabit Unmanaged PoE+ Switch 1pcs
- AC power cable 1pcs
- Accessory 1pcs
- User manual 1pcs

### Please follow the below installation steps

- 1) Please turn off the signal power and display device power before installation, installation with power will damage the transmission equipment.
- 2) Use a network cable to connect the PoE IP camera or other devices to 1-16 POE port of the PoE Switch.
- 3) Use a network cable to connect equipment to the uplink port and NVR or computer.
- 4) Connect AC power.
- 5) Check if the installation is correct equipment is in good condition the connection is stable then provide power for system.
- 6) Ensure the Ethernet equipment with power and work properly.

## 5 Board Diagram

16-Port Gigabit Unmanaged PoE+ Switch

### Front board



### Back board



## 6 Troubleshooting

Please follow the steps if the equipment has trouble

- Make sure the equipment is installed according to the manufacture's installation guide.
- Confirm RJ45 cable order meets EIA/TIA 568A or 568B standard.
- Every PoE port can provide PoE equipment maximum power less than 30W, please do not connect the PoE equipment with power over 30W.
- Replace the equipment with a proper functioning 16 ports PoE Ethernet Switch to check if the equipment is damaged.
- Please contact your vendor if trouble still exists.

## 7 Plug Producing Method

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

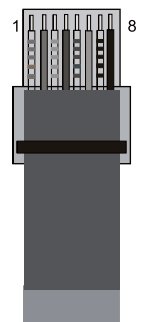
- 1) Please remove 2cm of the insulating layer and bare 8 pairs UTP cable
- 2) Separate the 8 pairs UTP cable and straighten them.
- 3) Line up the 8 pieces of cables per EIA TIA 568A or 568B.
- 4) Cut off the cables to leave 1.5cm bare wire.
- 5) Plug 8 cables into RJ45 plug make sure each cable is in each pin.
- 6) Use the wire crimper to crimp it.
- 7) Repeat above 6 steps to make the another ends.
- 8) Use network tester to test the cable if it works.

| 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 choosing RJ45 make sure if one end is EIA / TIA568A. the other end should also be EIA / TIA568A. When choosing RJ45 make sure if one end is EIA / TA568B. the other end should also be EIA / TIA568B.