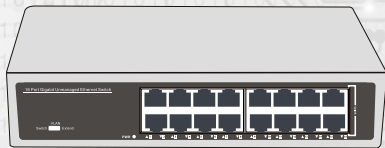


# Quick Start Guide



## 16 Port Gigabit Unmanaged Ethernet Switch

## 1 Features

- Conforms to IEEE802.3, IEEE 802.3u, IEEE 802.3ab.
- Provides 16 10/100/1000Base-T ports.
- High back-plane bandwidth 32 Gbps.
- IEEE 802.3x Flow control.

The switch supports one-key function conversion, currently supports three modes, DEFAULT mode, VLAN mode, EXTEND 250m mode.

DEFAULT: Normal mode, no special function.

VLAN : 1-14 port will not communicate with each other only communicate with uplink port 15-16. It will control the Net storm, protect the information security.

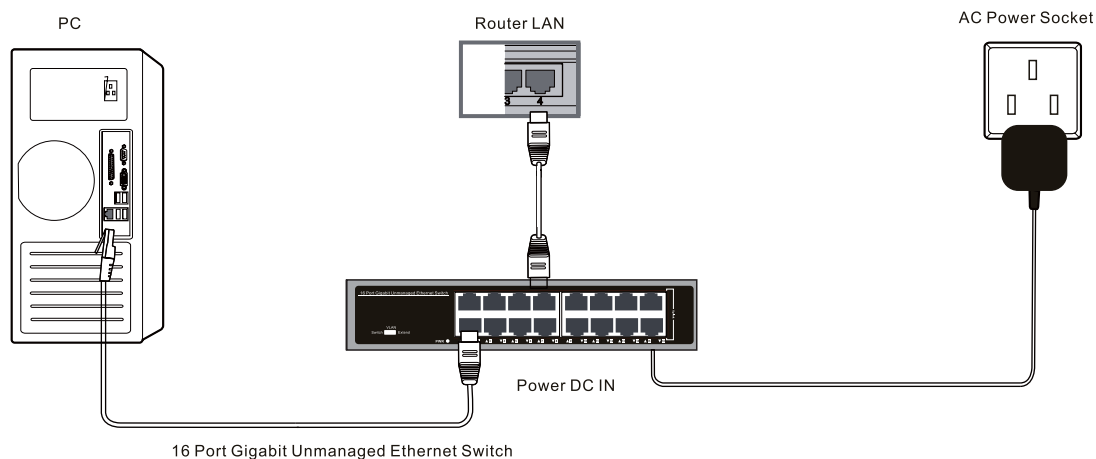
EXTEND 250m: 1-14 port can transmit 250 meters, when using Cat5e/6 network cable or better network cable, port 15-16 has no special function.



**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 Gigabit Unmanaged Ethernet Switch is designed for a variety of applications, including small home offices, internet cafes, schools, and small to medium-sized enterprises. It is a full Gigabit Ethernet switch that upgrades networks to Gigabit speeds to meet high bandwidth requirements. This switch offers 16 10/100/1000Mbps adaptive Ethernet ports, all of which support full line-speed, non-blocking switching and auto-negotiation functionality.



## 3 Specifications

|                | Item                    |                           | Description                                         |
|----------------|-------------------------|---------------------------|-----------------------------------------------------|
| Power          | Power supply            |                           | Built-in Power Supply                               |
|                | Voltage Range           |                           | AC100~240V                                          |
|                | Consumption             |                           | <15w                                                |
| Ethernet       | Speed                   |                           | 1~16 Port: 10/100/1000Mbps                          |
|                | Transmission Distance   |                           | 100Meter(328ft)                                     |
| Network Switch | Ethernet Standard       |                           | IEEE 802.3/802.3u / 802.3ab                         |
|                | Switching capacity      |                           | 32G                                                 |
|                | Transfer Rate           | 14,880pps for 10Mbps      |                                                     |
|                |                         | 148,800pps for 100Mbps    |                                                     |
|                |                         | 1,488,000pps for 1000Mbps |                                                     |
| MAC Address    |                         | 8K MAC address table      |                                                     |
| LINK / ACT     | On                      | Green                     | The port is connecting                              |
|                | Blinks                  | -                         | The port is receiving or transmitting data          |
|                | Off                     |                           | The port is not linked successfully with the device |
| Enviro -nment  | Working Temperature     |                           | 0~40 ℃                                              |
|                | Storage Temperature     |                           | -40~70 ℃                                            |
|                | Humidity Non condensing |                           | 0~90%                                               |
| Mecha -nical   | Dimension               |                           | 200 x 118 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 Ethernet Switch 1pcs
- AC power cable 1pcs
- Accessory 1pcs
- User manual 1pcs

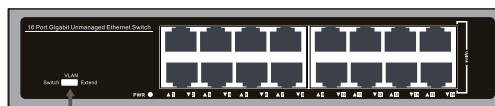
### Please follow the below installation steps

- 1) Please turn off the power signal and display devices power before installation. Please note: Installing with the power on will damage the product.
- 2) Use a network cable to connect the PC or other wired equipment that needs to be on the provided networked.
- 3) Use a network cable to connect equipment up link to port and Router LAN.
- 4) Connect power.
- 5) Check if the installation is correct, the equipment is in good condition and the connection is stable; then connect power to the system.
- 6) Ensure the Ethernet equipment has power and is working properly.

## 5 Board Diagram

16 Port Gigabit Unmanaged Ethernet Switch

### Front board



Toggle switch to change different working modes

Gigabit Ethernet Port

### Back board



Power input port  
INPUT:100 240VAC

## 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/TIA568A or 568B standard.
- Replace the equipment with a proper functioning 16 Port Network 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.

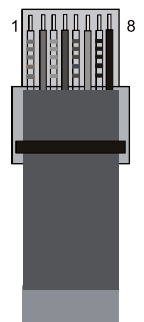
- 1) Please remove 2cm long of the insulating layer and bare 8 pairs UTP cable
- 2) Separate the 8 pairs UTP cable and straighten them.
- 3) Line up the 8 pieces of cables per EIA TIA 568A or 568B.
- 4) Cut off the cables to leave 1.5cm bare wire.
- 5) Plug 8 cables into RJ45 plug make sure each cable 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 an RJ45, ensure that if one end is EIA/TIA568A, the other end is also EIA/TIA568A. When choosing an RJ45, ensure that if one end is EIA/TIA568B, the other end is also EIA/TIA568B.