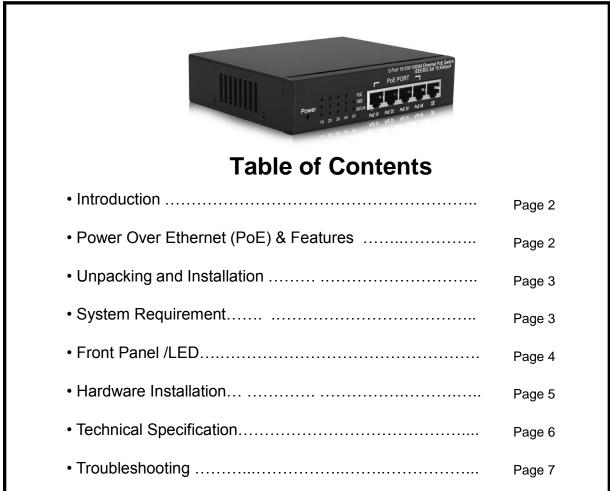
# **Quick Installation Guide**

### 5-Ports Gigabit 10/100/1000M PoE Switch (af Version 15.4W)



#### •FCC Warning:

This device has been tested and found to comply with the regulations for Class B digital equipment. Pursuant to Part 15 of FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with users guide, may cause harmful interference to radio communications. Operation of this devices in a residential area is likely to cause harmful interference, in which case the user will be required to correct the interference at his/her own expense.

#### •CE Mark Warning:

This is a Class B product. In a domestic environment, this product may cause radio interference, in which case the user may be required to take adequate measures.

#### •UL Warning:

- Elevated Operating Ambient Temperature- If installed in a closed or multi-unit rack assembly, the operating ambient temperature of the rack environment may be greater then room ambient. Therefore, Consideration should be given to installing the equipment in an environment compatible with manufacturer's maximum rated ambient temperature
   Reduced Air flow-installation of equipment in a rack should be such that the amount of air flow required for safe
- 2> Reduced Air flow-installation of equipment in a rack should be such that the amount of air flow required for safe operation of the equipment is not compromised.
  2. Mechanical leading requirements is the rack should be such as that a basedout.
- 3> Mechanical Loading- mounting of the equipment in the rack should be such as that a hazardous Conditions is not achieved due to uneven mechanical loading.

#### IMPORTANT

This users guide contains information on the limitations regarding product use and function and information on the limitations as to liability of the manufacturer. Read the entire guide carefully

### 1. Introduction

The 5-Ports Gigabit PoE switch is an unmanaged 10/100/1000Mbps Gigabit Ethernet PoE switch designed to enhance workgroup performance while providing a high level of flexibility. It provides 5 x 10/100/1000Mbps ports and 4 IEEE802.3af Power over Ethernet (PoE) ports for workstation. It is an ideal solution for small office and home users to utilize a combination of Gigabit PoE and non-PoE device. The switch automatically detects IEEE 802.3af compliant devices and provides power and data over a single cable.

The 5-Ports Gigabit PoE switch is a Power Source Equipment (PSE) and fully compatible with Powered Devices (PD)

that comply with the IEEE 802.3af PoE standard. The *5-Ports Gigabit PoE Switch* enables users to attach IEEE802.3af compliant devices such as <u>wireless Access Points (APS)</u>, <u>VOIP phone</u>, I<u>P camera</u>, <u>printer</u> and <u>Network Attached Storage (NAS) directly</u> to the *5-Ports 10/100/1000M Ethernet PoE* Switch without requiring additional power on the network. The unit is designed for home and small business users in mind and is ideal for installations where AC power is not available or not cost-effective.

No configuration is required and installation is quick and easy. Support for Auto – MDI / MDI-X on all the ports eliminate the need for crossover connection to another switch or HUB. Auto - Negotiation on each port senses the link speed of a network device ( either10/100/1000) and intelligently adjusts for compatibility and optimal performance.

- \* 1-Year Limited Warranty for switch and 1-Year Limited Warranty for the power adaptor are available
- \* This device is designed for indoor use. Do not use outdoors.

### 2. Power over Ethernet (PoE) & Features

### •Power Over Ethernet (PoE):

Power over Ethernet (PoE) integrates 48V power and data onto one single cable, eliminating the need to have AC power available at all equipment locations. Power and Data are integrated onto the same cable, supporting category 5/5e/6 up to 100 Meters. PoE provides power to PoE compatible devices, such as VOIP telephones, wireless LAN access points, and IP security cameras.

PoE devices are ready in the market, saving up to 50% of overall installation cost by eliminating the need to install separate electrical wiring and power outlets.

#### •Features:

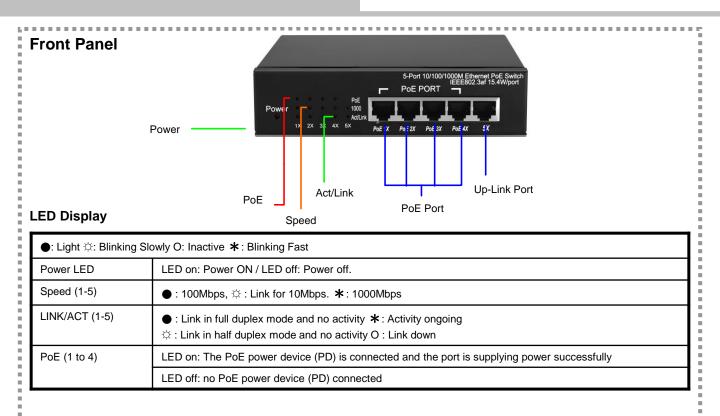
- 5 x 10/100/1000Mbps Auto-negotiation Fast Ethernet RJ-45 ports with 4-Ports PoE function (port 1 ~ port 4)
- Compliant with IEEE 802.3af
- Supports PoE power up to 66W (af) for all PoE ports.
- Supports PoE IEEE802.3af compliant Powered Device (PD)
- Each port supports auto MDI/MDIX, so there is no need to use cross-over cables.
- Full/half duplex transfer mode for each port.
- Wire speed reception and transmission.
- Up to 2K unicast address entities per device. Self-learning, and table aging.
- 9216-byte jumbo packet length.



## 4. System Requirements

•Installation:
The installation of the 5-Ports 10/100/1000M Ethernet PoE Switch requires the following steps:
<ul> <li>A computer with a 10/100/1000MBase-T network adapter installed</li> </ul>
<ul> <li>The surface must support at least 3.0Kg (6.6 lbs) for the switch.</li> </ul>
<ul> <li>The power adapter should be within 1.5 meters (5 feet) of the switch.</li> </ul>
<ul> <li>Visually inspect the DC power cord and make sure that is fully secured to the power outlet.</li> </ul>
<ul> <li>Make sure that there is proper heat dissipation from and adequate ventilation around the switch. Do not place heavy objects on the switch.</li> </ul>

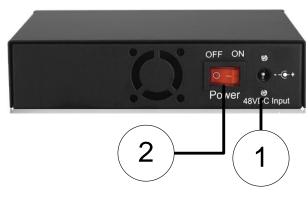
### 5. Front Panel/LED/PoE Network



#### Interface Port

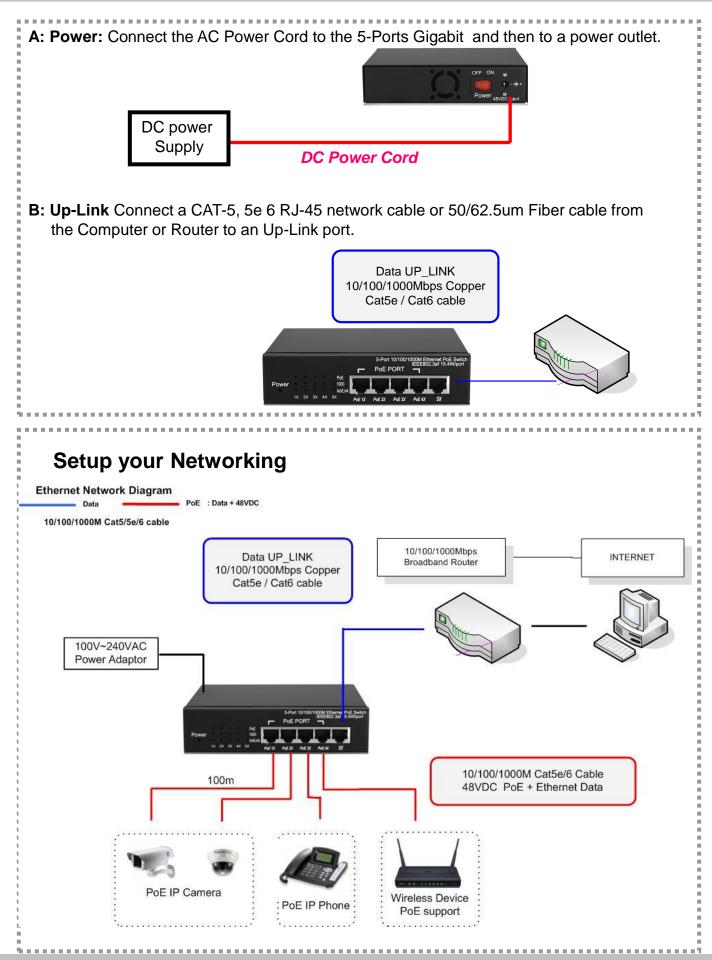
Port 1 - 4 PoE	10/100/1000Mbps Ethernet PoE Port 1 – Port 4. 8P8C RJ-45.
Port 5 Up-Link	10/100/1000Mbps Data Up-Link 8P8C RJ-45

**Rear Panel** 



÷.,			Ĵ
i.	1	DC Power Input jack: DC Input 48VDC 2.5A OD: 5.5mm/2.5mm	
	2	Power ON / OFF switch	

### 6. Hardware Installation



5-Ports Ethernet Gigabit PoE Switch

Rev 1.0 01/03/2013 Page 5 / 7

## 7. Technical Specifications

Standard	IEEE 802.3 10BASE-T Ethernet
	IEEE 802.3u 100BASE-TX Fast Ethernet
	IEEE 802.3x Full Duplex Flow Control
	IEEE 802.3af Power over Ethernet
	IEEE 802.3ab 1000Base-T Gigabit Ethernet (twisted-pair copper)
Protocol	CSMA/CD
Data Transfer Rate	Ethernet: 10Mbps (half-duplex), 20Mbps (full-duplex)
	Fast Ethernet: 100Mbps (half-duplex), 200Mbps (full-duplex)
	Gigabit Ethernet: 2000Mbps (full duplex)
Network Cables	10Base-T: 2-pair UTP Cat 3, 4, 5 up to 100 meters.
	100Base-T : 2-pair UTP Cat 5, 5e up to 100 meters.
	1000Base-T: 4-pair UTP Cat5e 6, up to 100meters.
Number of Ports	5 x 10/100/1000Mbps auto-MDIX RJ-45 ports with 4 PoE enabled ports.
PoE power on RJ-45	Power +: pin 3 & pin 6 ; Power –: pin 1 & pin 2
AC to DC power supply	Input: 100V ~ 240VAC, 50Hz ~ 60Hz. Output: 48VDC 1.5A

Power Consumption	6.0 watts (max with no PD device connected)
	66watts ( 4 PoE ports 15.4W/port)
Temperature	Operation: 0°C ~ 40 °C or 32°F ~ 104 °F
	Storage Temperature: -10°C ~ 70 °C or 14°F ~ 158 °F
Humidity	Relative Humidity: 5% - 95%
Dimensions	151 mm W x 126 mm D x 36 mm H
EMI	FCC Class B, CE Mark Class B
Safety	100VAC to 240VAC power supply UL listed.
Filtering Address Table	2K entries per device
Packet Filtering	10Mbps Ethernet: 14,880/pps
Forwarding Rate	100Mbps Ethernet: 148,800/pps
	1000MBase-T Ethernet: 1,488,000/pps.
MAC address Learning	Automatic update
Transmission Method	Store – and – Forward

### 8. Troubleshooting

### 1> After connecting the Switch to a power outlet, the LEDs do not turn on.

Check the connection of the power cord to the **Router** and the power outlet. Check that the power outlet is receiving power.

# 2> When I connect a computer to the Switch's port, the Link/ACT LED turns on, but the 100Mbps LED remains off.

When the 100Mbps LED is off, the computer's connection speed is 10Mbps.

### 3> After I connect my PCs to the Switch, I am unable to share files.

- 1. Check the LEDs on the Switch. Make sure the Link/ACT LED is on.
- 2. Check the network cable. The minimum length of the cable is 1.5 meters and the maximum length of the cable is 100 meters.
- 3. Disable any software firewall program.
- 4. Verify that you have file sharing enabled. Please contact your Operating System support for more information.

# 4> After I connect my PCs to the Switch, I can only get onto the Internet from one computer.

The Switch is not designed to share Internet between multiple computers. You need to get an Internet router.

### 5> Where is the uplink port located on the Switch?

Since all the ports on the Switch are Auto-MDIX, any of the ports can be used as an uplink port. If you still encounter problems or have any questions regarding the **5-Ports Gigabit PoE switch** please contact supplier's Technical support department.