

pakedgedevice&software inc.

## **SW8-4PB**

8 Port Fast Ethernet with 4 Port PoE Switch

## **User Manual**

Version 2.1

## FCC Certifications



This Equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to part 15 of the 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 the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received; including interference that may cause undesired operation.

## CE Mark Warning



This equipment complies with the requirements relating to electromagnetic compatibility, EN 55022 class A for ITE, the essential protection requirement of Council Directive 89/336/EEC on the approximation of the laws of the Member States relating to electromagnetic compatibility.

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# **Unpacking Information**

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Thank you for purchasing Pakedge Device & Software SW8-4PB. Before installation, please check that your package contains the following items.

- 1. One 4+4 10/100 PoE Switch**
- 2. One power cord**
- 3. User's Manual**

## **Introduction**

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### ***General Description***

SW8-4PB is a powerful, high-performance Fast Ethernet Switch, with all 8 ports capable of 10 or 100Mbps auto-negotiation operation (NWay). The SW8-4PB could automatically negotiate with the connected partners on network speed and duplex mode. It is ideal for micro-segmenting large networks into smaller, connected subnets for improved performance, thus enabling the bandwidth demanding multimedia and imaging applications. Moreover, the 10/100Mbps auto-sensing ability provides an easy way to migrate 10Mbps to 100Mbps network with easy.

The SW8-4PB supports PoE, which supplies power for connected devices via CAT 5 and above twisted cables. By integrating the

data transmitting cable and power cord, it make setting up your network easier. You could easily connect a Wireless AP or a VoIP phone to this switch without having an electrical outlet close by. Over current protection and circuit shorting protection are also supported to ensure safe operations.

The SW8-4PB is plug-n-play without any software to configure and also fully compliant with all kinds of network protocols. Moreover, the rich diagnostic LEDs on the front-panel provide the operating status of individual port and whole system.

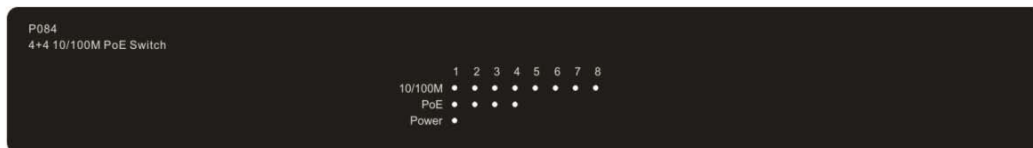
### ***Key Features***

- Complies with 10BASE-T specifications of the IEEE802.3 standard
- Complies with 100BASE-TX specifications of the IEEE802.3u standard
- Compliant with IEEE 802.3af PoE standard (DTE power via MDI-X)
- Provides 4 PoE ports with classification identify
- Supports 15.4W maximum per PoE port
- Supports over current protection and circuit shorting protection
- 8 \* RJ-45 ports for 100BASE-TX and 10BASE-T connectivity
- Supports NWay protocol for speed (10/100Mbps) and duplex mode (Half/Full) auto-detection

- Supports MDI/MDI-X auto crossover
- Wire-speed packet filtering and forwarding rate
- Store-and-forward architecture filters fragment & CRC error packets
- Supports 1K MAC entries
- 768K Bits buffer memory
- Supports extensive LED indicators for network diagnostics
- Internal universal switching power supply
- FCC Class A, CE, VCCI Class A

## ***The Front Panel***

The front panel consists of LED indicators. Please refer to the following paragraph for detailed LED definition.



## **LEDs Definition**

The switch contains 1\* power LED for the device, 1\*10/100M LED for each port and 1\*PoE LED for port 1 ~ port 4.

### ***System LED:***

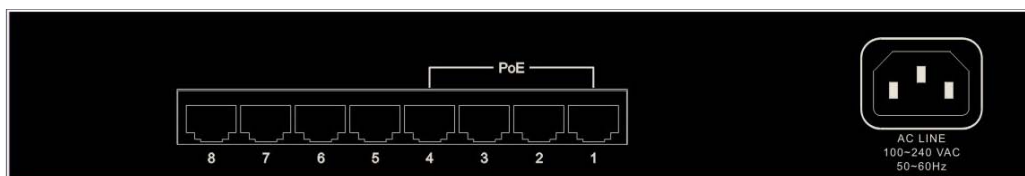
<b>LED</b>	<b>Status</b>	<b>Operation</b>
<b><i>Power</i></b>	Steady Green	The switch is powered on
	Off	The switch is powered off

### ***Port LEDs***

<b>LED</b>	<b>Status</b>	<b>Operation</b>
<b>10/100M</b>	Green	The port is connected
	Blinking Green	Data transmitting /receiving.
	Off	No valid link on this port
<b>PoE</b>	Green	One PoE compliant device is connecting with this port.
	Off	There is no PoE compliant device connecting with this port.

### ***The Rear Panel***

The rear panel consists of one power receptacle and 8 RJ-45 ports. Port 1 to Port 4 also support connecting to PoE devices.



## Power Receptacle

To be compatible with the electric service standards around the world, the switch accepts a power supply in the range of 100 to 240VAC, 50/60Hz. Please make sure that your outlet is within this range.

To power on the switch, please plug the female end of the power cord firmly into the receptacle of the switch and the other end into an electric service outlet. After the power cord installation, please check if the power LED is lit for normal power status.

## **Installation**

This switch can be placed on your desktop directly, or mounted in a rack. The installation is a snap. Users can use all the features of the switch by simply attaching the cables and turning the power on.

Before installing the switch, we strongly recommend:

1. The switch is placed in a well ventilated environment. a minimum 25mm space around the unit is recommended.
2. The switch and the relevant components are away from electrical noise sources such as radios, transmitters and broadband amplifiers
3. The switch is away from environments beyond recommend moisture levels

## ***Desktop Installation***

1. Install the switch on a level surface that can support the weight of the unit and the relevant components.
2. Plug the switch with the female end of the provided power cord and plug the male end to the power outlet.

## ***Rack-mount Installation***

The switch is supplied with rack mounting brackets and screws for rack mounting the unit.

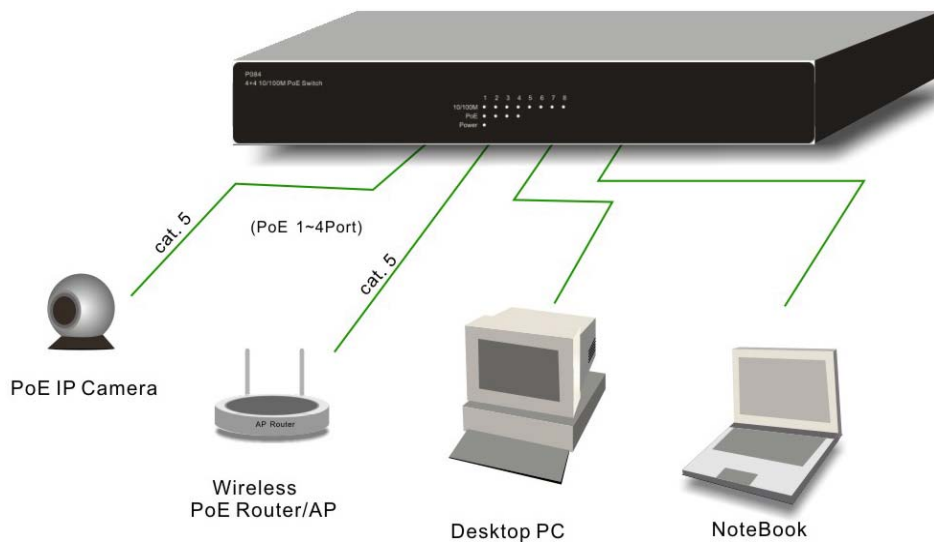
Procedures to Rack-Mounting the Switch in the rack:

1. Disconnect all the cables from the switch before continuing.
2. Place the unit on a hard, flat surface with the front facing you.
3. Locate the mounting bracket over the mounting holes on one side of the unit.
4. Insert the screws and fully tighten with a screwdriver.
5. Repeat the two previous steps for the other side of the unit.
6. Insert the unit into the rack and secure with suitable screws.
7. Reconnect all the cables.

## ***Installation of Network Cables***

1. **Crossover or straight-through cable:**  
All the ports on the switch support Auto-MDI/MDI-X functionality. Both straight-through or crossover cables can be used to connect the switch
2. **Category 3, 4, 5 or 5e UTP/STP cable:**  
To make a valid connection and obtain the optimal performance, use appropriate cables corresponding to different transmitting/receiving speed. Please refer to the following table for information:

Media	Speed	Wiring
10/100 Mbps ports	10 Mbps	Category 3, 4, 5 UTP/STP
	100 Mbps	Category 5 UTP/STP
Ports that support PoE (Port 1 ~ Port 4)	10/100 Mbps	Category 5, 5e UTP/STP or above.



## Product Specifications

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<b>Standard</b>	IEEE802.3 10BASE-T IEEE802.3u 100BASE-TX IEEE802.3af Power over Ethernet IEEE802.3x flow control
<b>Interface</b>	8 * 10/100 Mbps auto MDI/MDI-X RJ-45 ports (Port1~4 support PoE power feeding)
<b>Network Data Rate</b>	10/100 Mbps Auto-negotiation
<b>Transmission Mode</b>	10/100Mbps Full-duplex, Half-duplex
<b>LED indications</b>	System: Power Ports: 10/100M, PoE
<b>Memory</b>	1K MAC entries 768K Bits buffer Memory
<b>Emission</b>	FCC Class A, CE, VCCI Class A
<b>Power Consumption</b>	64.32W (max. with 4 x 15.4 w PoE Device connected) 4.848W(max. with no PoE Device connected)
<b>Operating Temperature</b>	0° ~ 40°C (32° ~ 104°F)
<b>Operating Humidity</b>	10% - 90%(non-condensing)
<b>Power Supply</b>	48V 1.35A 100-240V/47-63 Hz universal input

# ***Technical Support***

Please visit our website for up-to-date  
support information:

Website: **[www.pakedge.com](http://www.pakedge.com)**

Email: **[support@pakedge.com](mailto:support@pakedge.com)**

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