

## 07 Technical Specifications

Model	RB-802L-PSE
Product	2x SFP and 8x RJ45 PoE Simple Network Web Managed Switch
Fixed Port	8*10/100/1000Base-TX PoE Port 2*1000M SFP
Reset Button	1
Function Switch	N: Standard sharing W: Managedment mode
PoE Port	Port 1: Support IEEE803.2af/at/PoE++/bt Maximum power 90W Port 2-8: Support IEEE803.2af/at single port maximum power 30W Port 1-8: PoE watchdog function (power cycle)
Network Protocols	IEEE 802.3, 802.3i, 802.3x, 802.3ab, 802.3z IEEE 802.3AF/AT/PoE++/BT
Port Specifications	10/100/1000Base T(X) automatic detection, full/half duplex, MDI/MDI-X
PoE Power	≤150W
Bandwidth	56Gbps (non blocking)
Packet Forwarding	40.32Mpps
MAC Address	8K
Buffer	4M
Transmission Distance	10BASE-T: Cat3,4,5 UTP(≤250 meter) 100BASE-TX: Cat5 or later UTP(150 meter) 1000BASE-TX: Cat6 or later UTP(150 meter)
Watt	≤150W
LED Indicators	Power: Power LED 9 10: (SFP LED) Port: (PoE work indicator orange; link_; network connection indicator green)
Power	Built-in Power AC: 100~240V 50/60HZ 2A
Operating Temperature/Humidity	-10~+65℃; 5%~90% RH Non condensing
Storage Temperature/Humidity	-40~+75℃; 5%~95% RH Non condensing
Product size/ Package size (L*W*H)	210mm*140mm*45mm 270mm*220mm*70mm
N.W/G.W (kg)	1.3kg/1.6kg
Installation	Desktop (optional wall mounting kit available)
Lightning protection/ Protection level	3KV 8/20us; IP30
Certificate	3C; CE mark, commercial; CE/LVD EN60950; FCC Part 15 Class B; RoHS
Warranty	1 year (accessories not included)

## Features

PoE Management	PoE/PoE+/PoE++ capable PoE protocol type configuration PoE individual port restart function PoE port watchdog configuration PoE port status, current, power and voltage display
Port configuration	Enable/disable port function Port flow control Port rate control Port name customization
Layer 2 Switching	Port address dynamic learning Port aggregation IGMP V1/V2 support
Port Mirror	Supports traffic statistics Supports local ingress/egress monitoring Supports loopback detection and loop prevention
VLAN	802.11q VLAN, MTU VLAN and port VLAN
Service quality (QoS)	4 port queues port priority, 802.1p priority and DSCP priority port bandwidth control, port isolation and storm suppression mega frame configuration MAC limit
System Management	Web GUI management
System Tools	Software upgrade Configuration backup System restart and factory reset



## User Guide RB-802L-PSE

Full Gigabit PoE Smart WEB Switch

## 01 Introduction

### Product overview

RB-802L-PSE is a 10 port full Gigabit Ethernet PoE switch with web GUI management. Ports 1~8 support IEEE802.3af/at standard PoE power supply. As a PoE PSE device, it can automatically detect and identify the power receiving equipment meeting PoE standard and supply power to it through the network cable. Switch is based on Realtek new generation high-performance platform. It supports 802.1Q VLAN, IGMP, Port aggregation, bandwidth control and other network management functions, and can easily adapt to a complex network application environment. Applications for switch include hotels, campuses, home or small business offices, providing an economic and efficient PoE network.

### Port Characteristics

- ◆8\*10/100/1000M R45 PoE adaptive ports, all ports capable of line speed forwarding
- ◆2\*Gigabit SFP optical fiber uplink ports for high-speed uplink transmission
- ◆Each port supports MDI/MDI-X polarity and full/half duplex negotiation.
- ◆Support IEEE 802.3x full duplex flow control and backpressure half duplex flow control.

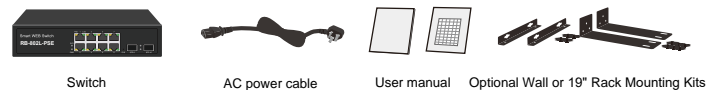
### PoE functions

- ◆Comply with IEEE 802.3af/at power supply standard. The full PoE budget for switch is 150W, and the maximum PoE output power of single port is 30W.
- ◆Automatically identifies PoE equipment (IEEE 802.3af/at compatible)
- ◆Advanced PD monitoring functions: after PoE is started, detects power consumption and network status of PoE electrical equipment: If the PD side is stalled, the switch actively restarts the PoE port and restores PoE power supply automatically
- ◆Port1 supports IEEE 802.3bt delivery up to 90W per port

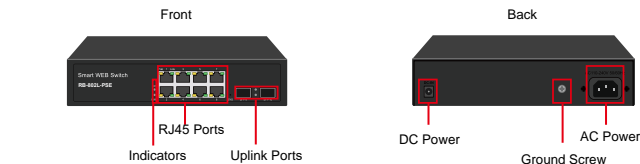
### Features

- ◆Supports IEEE 802.1Q VLAN
- ◆Supports QoS
- ◆Supports port monitoring.
- ◆Supports management and maintenance through web interface.
- ◆Supports port aggregation to increase link bandwidth, provide backup and improve overall reliability.

## 02 Parts List



## 03 Product Diagram



### LED definitions:

Indicator		Status	Description
Power indicator: PWR		Green light is always on	Power is present
		Always off	No power
System indicator: SYS		1s slow flash	Normal operation
Network indicator	Green	Light is on	Port has data transmission
	Orange	Light is on	Port has PoE output normal
SFP indicator		Light is on	Port transmits and receives data

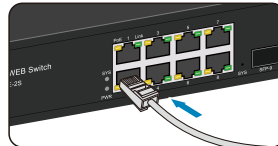
## 04 Installation

### Before installation

1. Check for any missing parts. If there is any omission, please contact us.
2. Check that power supply voltage is matching the power input requirements for switch, to avoid power damage
3. Ensure switch installation location meets ventilation and heat dissipation conditions.
4. Please keep the power off during installation to avoid potential safety hazards.
5. Please install the switch on a level surface to avoid mechanical damage.

### Port installation and connections

- Connect a data cable



As shown in the figure, insert the RJ45 head of the data cable into the network port. When you hear a clear click, the RJ45 connector is successfully connected with the network port of the switch.

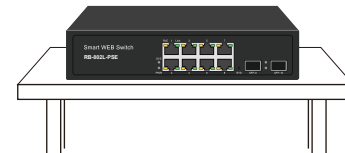
- Install an SFP module



As shown in the figure, align the optical fiber module with the optical port of the SFP and insert it smoothly. When you hear a clear click, the optical fiber module has installed successfully.

### Install to desktop

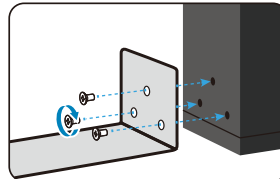
- Place switch on a desktop



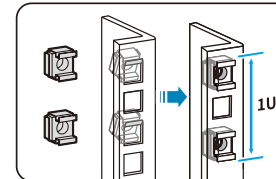
The switch should be placed on a well ventilated horizontal desktop, which is conducive to better heat dissipation.

### Install to cabinet/Rack

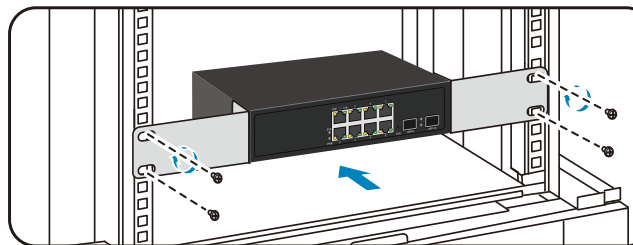
1. Install the rack brackets to the equipment on both sides of the switch using provided screws



2. Install floating nuts on cabinet/rack

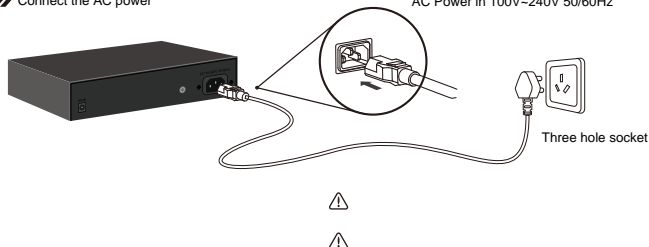


3. Put the switch with mounted brackets into the cabinet and screw on the rack screws to complete the installation



### Power on

- Connect the AC power



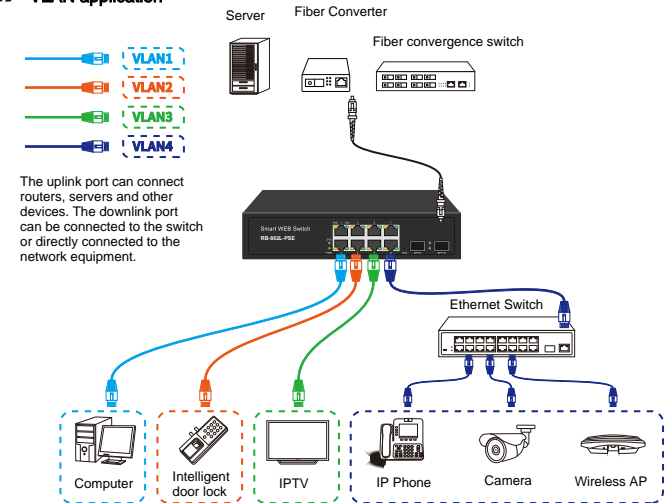
AC Power in 100V~240V 50/60Hz

### Caution

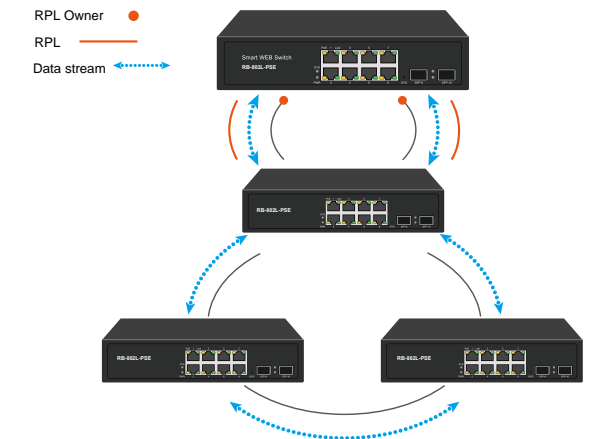
1. Do not stack heavy objects on top of switch.
2. To avoid risk of electric shock, do not open unit under operation or with the power still active.
3. Clean switch with dry soft cloth, do not use any liquid.
4. If the power adapter is damaged or lost, do not replace it with other 3rd party power adapter. Contact us for an original power adapter replacement unit.

## 05 Application

### VLAN application



### Ring network application



## 06 Troubleshooting

The PWR indicator is not on after the power is connected ⚠	Switch network speed suddenly drops ⚠	Switch cannot communicate after power up ⚠
↓	↓	↓
Check for power adapter and AC plug to be properly connected, and power cord or AC adapter to have no damage.	Check for RJ45 LED indicators to show a link. If indicator is off, the network cable is not connected.	Restart the switch.

If the above problems or other switch problems can not be solved, please contact us for technical support.