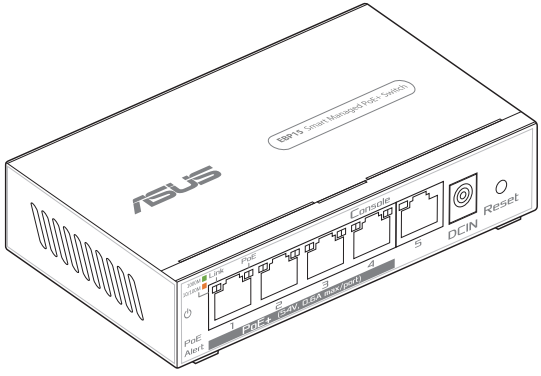
User Guide

ASUS ExpertWiFi EBP15

5-Port GbE Managed PoE+ Switch

Model: EBP15



IN SEARCH OF INCREDIBLE

E23347
First Edition
March 2024

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Safety and Regulatory

This guide is for the network professionals to manage the standalone EBP15 switch series.

It is recommended that only professionals with experience in networking devices and those who are familiar with Ethernet and local area networking terminology service the equipment.

1 Getting to know your EBP15

Thank you for purchasing EBP15 Gigabit Ethernet PoE+ web managed switch device.

This document provides hardware installation instructions as well as an overview of the interface and management functions of the Web Smart web-based software.

1.1 Overview

EBP15 is a PoE+ web-managed switch with a total of 5 Gigabit Ethernet ports and Ports 1-4 support PoE function. The Gigabit Ethernet switch provides a seamless network connectivity with integrated 1000Mbps Gigabit Ethernet, 100Mbps Fast Ethernet and 10Mbps Ethernet networking capabilities.

1.2 Package contents

Before using the product, check that the following items are included and in good condition.

- ☑ ExpertWiFi EBP15
- ☑ Power adapter
- ☑ Quick Start Guide
- ☑ Network cable (RJ-45)
- ☑ Power cord

NOTES:

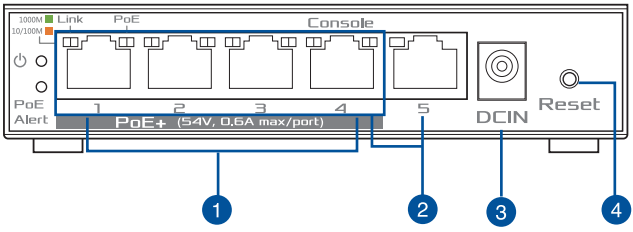
- If any of the items are damaged or missing, contact your dealer immediately.
- Keep the original packaging material in case you would need future warranty services such as repair or replacement.

1.3 Features

- IEEE 802.3af/at PoE compliant
- Five Gigabit Ethernet ports
- Up to 30W per port (total power budget: 60W) to power PoE-enabled devices
- Auto-detection of powered devices (PD) and power consumption levels
- Switch capacity: 10Gbps; Forwarding rate: 7.4Mpps
- IEEE 802.1Q-based VLAN for network segmentation to improve performance and security
- IEEE 802.1p QoS with 8 priority queues
- IGMP Snooping V1 / V2 / V3 support
- 8K MAC address table and jumbo frame support up to 15KB
- Small desktop form factor for small offices and home offices

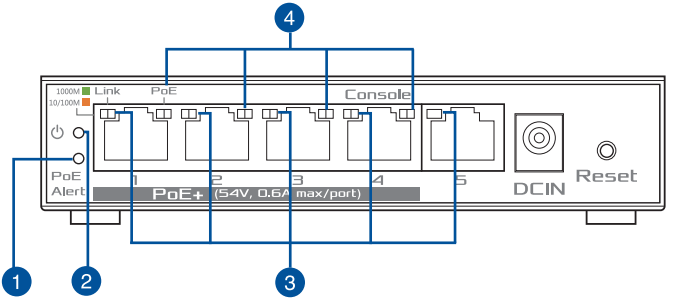
1.4 Product components

1.4.1 Ports



1	**Ethernet (LAN1-4) PoE+ ports (Port 4 is a console port)** IEEE 802.3af compliant PoE ports with a dedicated internal power supply of 60W.
2	**Ethernet (LAN1-5) ports** Designed to connect to network devices with a bandwidth of 10Mbps, 100Mbps or 1000Mbps. Each has a corresponding 10/100/1000Mbps LED.
3	**Power (DCIN) port** Supports DC 100 – 240V, 50-60Hz.
4	**Reset button** Press for 6 seconds to restore factory defaults.

1.4.2 LED Indicators



1	**PoE/Alert LED** **Green LED:** **Off**: The system is powered off or fails. **On**: The system is powered on. PoE power output is over 60W PoE power budget.
2	**Power/System LED** **Green LED:** **Off**: The system is powered off or fails. **On**: The system is powered on. **Flashing**: The system is booting up.
3	**Port LEDs (Left) (Port 1-5)** **LINK/ACT LED:** **Off**: The port is disconnected or the link fails. **Green On**: Has physical connection to 1000M network. **Amber On**: Has physical connection to 10M/100M network. **Blinking**: Transmitting or receiving data.
4	**PoE LEDs (Right) (Port 1-4)** **PoE/ACT LEDs:** **Off**: The port is disconnected or the PoE port fails. **Green On**: The PoE port supplies power normally.

2 Placement

Follow the guidelines to install the switch securely:

1. Place the switch on a level and stable surface, such as a desktop, to prevent it from falling.
2. To prevent the switch from overheating, do not operate it in an area where the ambient temperature exceeds 104°F (40°C).
3. Ensure that there is sufficient air flow around the switch.
4. Ensure that the location of the switch can support the weight of the switch and its accessories.
5. Ensure that the switch operates in the correct AC input range and matches the labeled voltage.

3 Getting started

3.1 Switch setup

This section provides an introduction to the web-based configuration utility, including:

- Powering on your device
- Connecting to the network
- Powering over Ethernet (PoE) considerations

3.1.1 Powering on your device

The switch is powered by the internal high performance DC 100-240 V 50/60Hz power supply. It is recommended that the switch be connected to a single-phase, three-wire power source with a neutral outlet, or to a multi-functional computer's professional source.

Connect the DCIN port on the front panel of the switch to an external power source using the supplied power cord and check that the power LED is on.

WANRING!

- Power off and disconnect the power cord before servicing or wiring a switch.
- DO NOT disconnect modules or wiring unless the power is switched off.
- The device supports only the voltage indicated on the label. DO NOT use power components other than those specifically designed for the switch.

3.1.2 Connecting to the network

To connect the switch to the network:

1. Connect an Ethernet cable to the Ethernet port of a computer.
2. Connect the other end of the Ethernet cable to one of the numbered Ethernet ports of the switch. The LED of the port will light up to indicate an active connection.

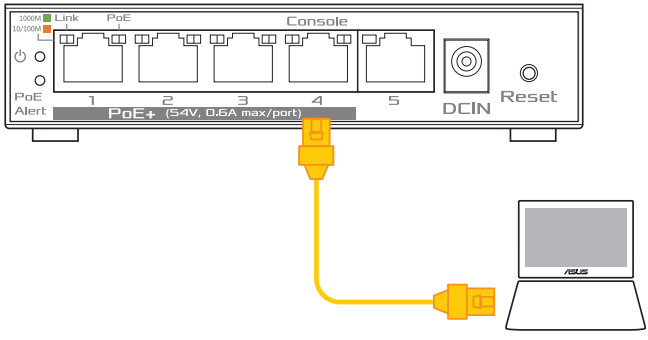
NOTE: For safety purpose, please connect your computer to the console port (Port 4) of the switch only.

3. Repeat Step 1 and Step 2 for each device to connect to the switch.

IMPORTANT! We strongly recommend using CAT-5E or better cable to connect network devices. When connecting network devices, do not exceed the maximum cabling distance of 100 meters (328 feet). It can take up to one minute for the connected devices or the LAN to be operational after it is connected. This is normal behavior.

Connect the switch to end nodes using a standard Cat 5/5E Ethernet cable (UTP/STP) as shown in the illustration below.

Switch ports will automatically adapt to the characteristics (MDI/MDI-X, speed, duplex) of the device to which the switch is connected.



3.1.3 Power over Ethernet (PoE) considerations

For a PoE switch model, consider the following information:

As a Power Sourcing Equipment (PSE) device, the switch can support up to 30 Watts per PoE port on ports 1 to 4 and 30 Watts per port on other port to a Powered Device (PD).

Model	Power Dedicated to PoE	PoE ports	PoE Standard Supported
EBP15	60W	1 to 4	IEEE802.3at/af

When connecting switches capable of supplying PoE, consider the following information:

- Switch models with PoE function are PSEs. These models are capable of supplying DC power to attached PDs, such as VoIP phones, IP cameras, and wireless access points (APs). Additionally, PoE switches are capable of detecting and supplying power to pre-standard legacy PoE Power Devices. Due to the support of legacy PoE, there is a possibility that PoE switches acting as PSE may inadvertently detect and supply power to an attached PSE, including other PoE switches. This false detection can result in a PoE switch operating improperly and failing to supply power to attached PDs.
- To prevent false detections, you can either disable PoE on the ports that connect to PSEs, or power up a PSE device before connecting it to a PoE switch.
- If a device is mistakenly detected as a PD, disconnect the device from the PoE port and power recycle it using an AC power source before reconnecting it to the PoE port.

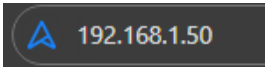
3.2 Logging into the Web GUI for the first time

This section describes how to log in and navigate the web-based switch configuration utility.

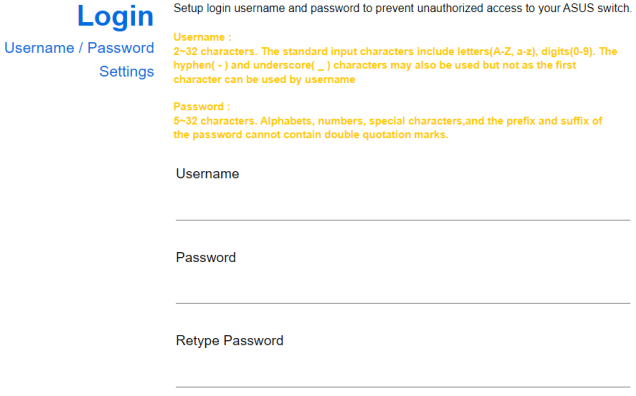
To log into the web GUI:

1. On your web browser, key in the device's default IP address 192.168.1.50 in the address bar and press Enter.

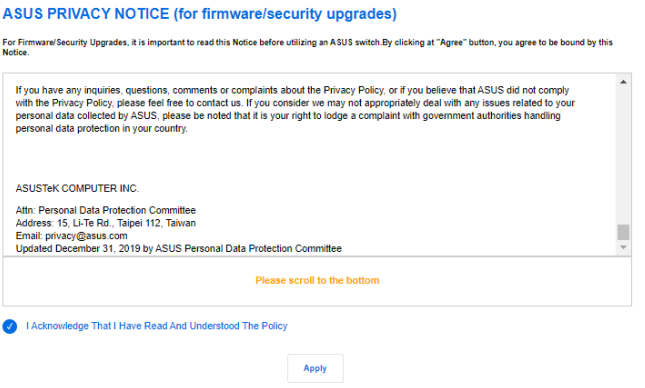
NOTE: Network connection is available only on the console port (Port 4).



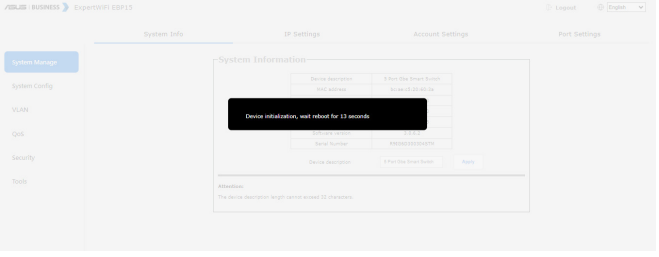
2. Set up a username and password. It's recommended that you create a strong password.



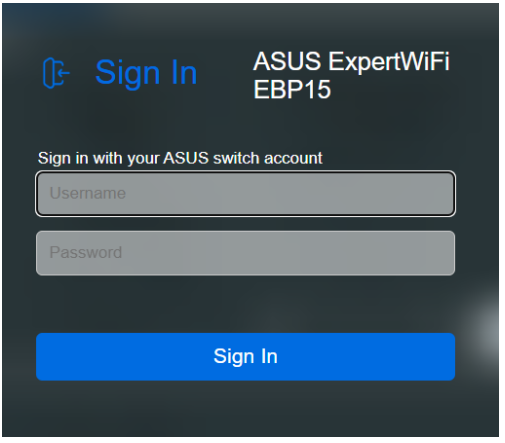
3. Browse ASUS privacy notice, tick **I Acknowledge That I Have Read And Understood The Policy** and click **Apply**.



Wait for the system to complete the configuration.

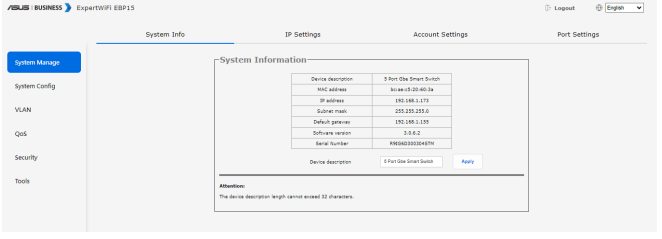


4. On the login page, enter the username and password you set up earlier.



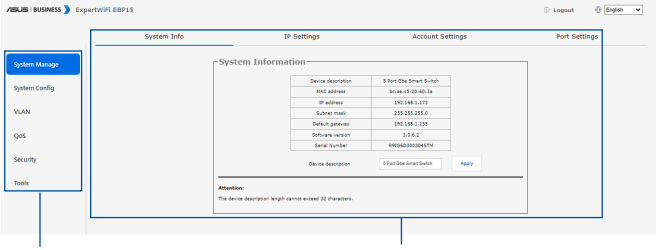
NOTE: If you enter an incorrect username or password, you'll see an error prompt and the login page will remain the same.

5. You can now use the Web GUI to configure various settings on your EBP15.



4 Web-based switch configuration

PoE Smart-Lite comes with an intuitive web graphical user interface (GUI) that allows you to easily configure EBP15's various features through a web browser.



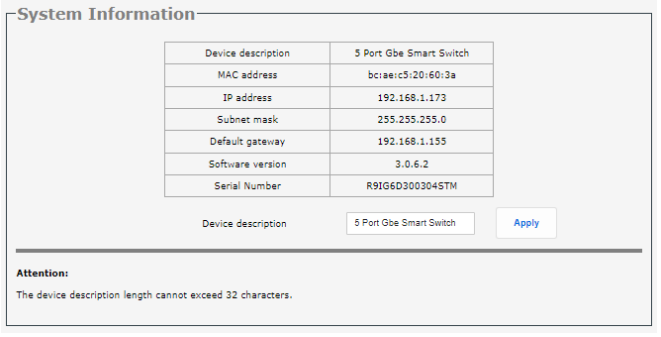
Function list

Navigation panel	Configuration field
System Manage	System Info
	IP Settings
	Account Settings
	Port Settings
System Config	IGMP Snooping
	Loop Prevention
	Port Mirror
	Speed Limit
	POE Config
VLAN	802.1Q VLAN Settings
QoS	QoS Basic
	QoS Advanced
Security	Storm Suppression
Tools	System Upgrade
	Backup Restore
	System Reset
	System Reboot

4.1 System Manage

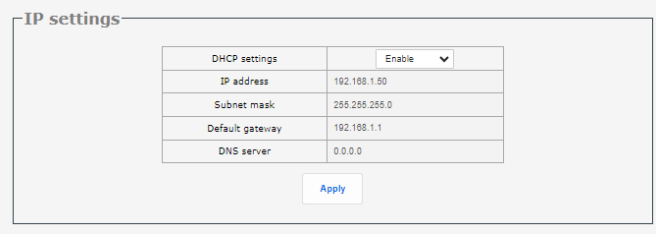
4.1.1 System Information

This page displays the system status, including device description, MAC address, IP address, loop status and so on.



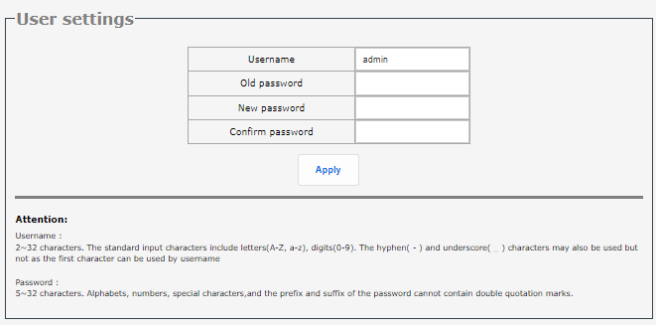
Items	Descriptions
Device description	Displays the device description or the model name. The length of the device description should not exceed 32 characters.
Mac address	A unicast MAC address for which the switch has forwarding and/or filtering information. The format is a six-byte MAC address, with each byte separated by a colon.
IP address	Displays the switch's IPv4 address on the network.
Subnet mask	A 32-bit number that masks an IP address.
Default gateway	The TCP / IP protocol under the gateway.
Software version	Displays current firmware version.
Serial Number	Displays the device's serial number.

4.1.2 IP Settings



Items	Descriptions
DHCP settings	The item is set to **Disable** by default. When enabled, the IP address is obtained from the external DHCP server.
IP address	Displays the switch's IPv4 address on the network.
Subnet mask	A 32-bit number that masks an IP address.
Default gateway	The TCP / IP protocol under the gateway.
DNS server	The item is set to **Disable** by default. When enabled, the IP address is obtained from the external DHCP server.

4.1.3 Account Settings

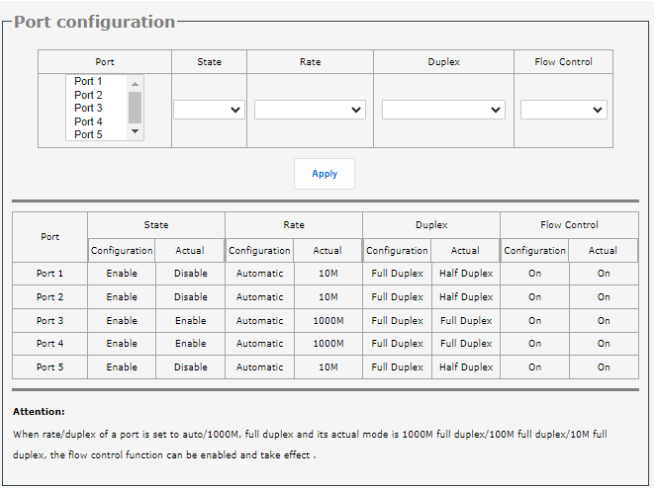


Items	Descriptions
Username	Allows you to set the username.
Old password	You'll be asked to set a new password when you log into the system for the first time. You can modify the password here later.
New password	Enter a new password.
Confirm password	Enter the new password again.

NOTES:

- Username is between 2 and 32 characters, consisting of letters (A-Z or a-z) and/or numbers (0-9). You can use hyphens (-) and underscores (_), but not as the first letter.
- The password must contain 5 to 32 characters. Double quotation marks are not allowed for letters, numbers, or special characters, nor for the prefix or suffix of the password.

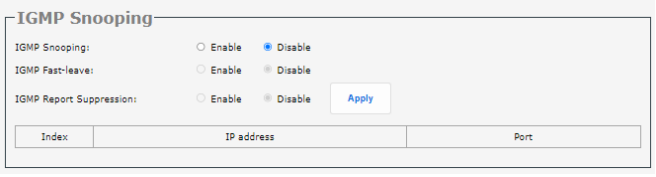
4.1.4 Port configuration



Items	Descriptions
Port	Select a port to configure.
State	The item is set to **Enable** by default. When disabled, the port will be closed.
Rate	Control the direction and speed of data transfer. Configuration options: [Auto] [10M] [100M]
Duplex	Configuration options: [Full Duplex] [Half Duplex]
Flow Control	Configuration options: [On] [Off]

4.2 System Config

4.2.1 IGMP Snooping

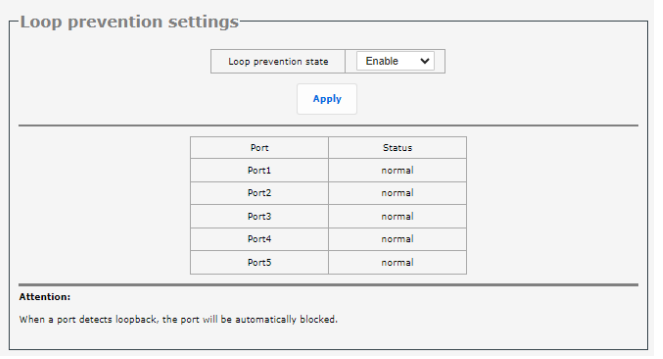


Items	Descriptions
IGMP Snooping	You can enable or disable IGMP Snooping.
IGMP Fast-leave	When enabled, the switch will send out an IGMP Group-Specific Query message immediately after receiving the IGMP leave message from the host connecting to the port to speed up the leave process.
IGMP Report Suppression	You can enable or disable the report suppression function.

NOTES:

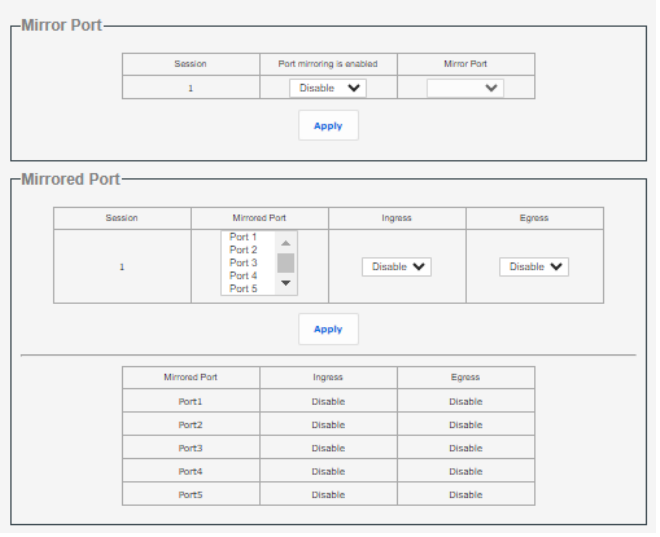
- Multicast IP traffic is the traffic sent to a group of hosts, which are are identified by Class D IP addresses ranging from 224.0.0.0 to 239.255.255.255.
- Internet Group Management Protocol (IGMP) Snooping is a feature that allows the switch to intelligently forward multicast traffic across the switch. This prevents the switch from broadcasting traffic to all ports, which could potentially affect network performance.

4.2.2 Loop Prevention



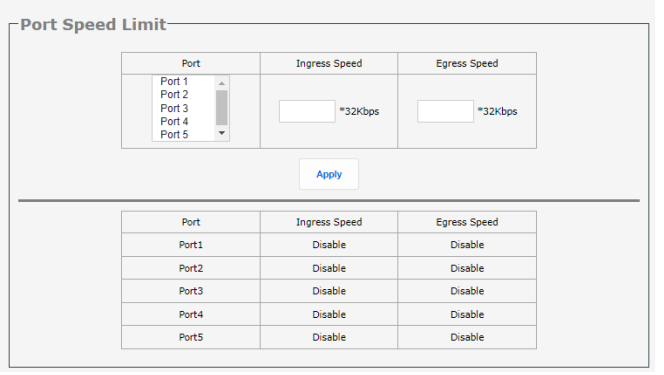
Item	Description
Loop prevention settings	The item is set to **Enable** by default. The system regularly detects whether there is a loop on the local side.

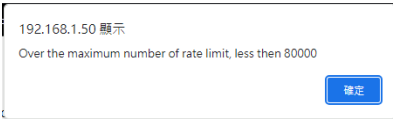
4.2.3 Port Mirror



Items	Descriptions
Port Mirroring is enabled	This item is set to **Disable** by default. When enabled, the port can copy packets sent and received by other ports.
Mirror Port	Select the port to copy.
Mirrored Port	Select the port to be copied.
Ingress/Egress	You can enable or disable the mirroring of received or sent packets.
Apply	Click **Apply** to save the changes.

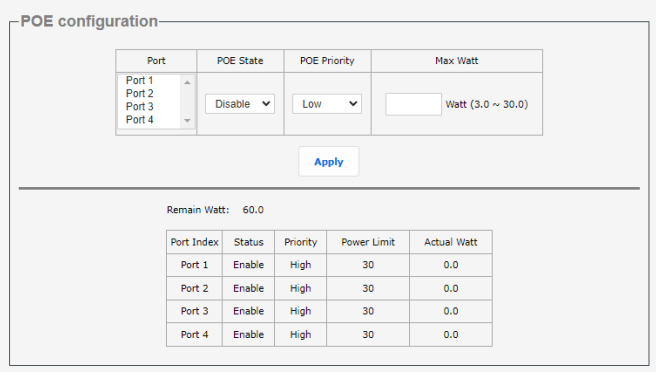
4.2.4 Speed Limit





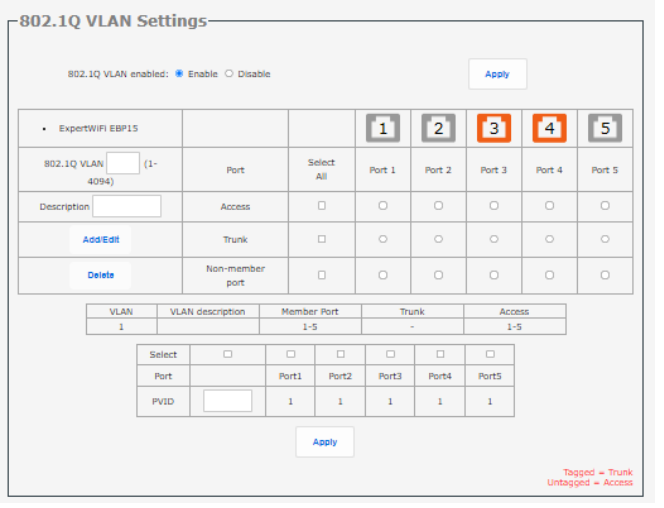
Items	Descriptions
Apply	Click **Apply** to save the changes.
Port	Select a port to configure.
Ingress Speed	Configure the maximum traffic limit for received data. • Disable: Unlimited • Maximum limit: 80000
Egress Speed	Configure the maximum traffic limit for the data to be sent. • Disable: Unlimited • Maximum limit: 80000

4.2.5 PoE Config



Items	Descriptions
PoE Status	
Port	Select an individual port to configure PoE parameters.
PoE State	You can enable or disable the PoE port. The PoE state is set to **Enable** by default.
PoE Priority	**Options:** Low High (default) Critical (highest priority)
Max Watt	3-30W (default)

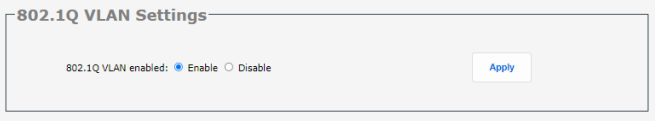
4.3 VLAN



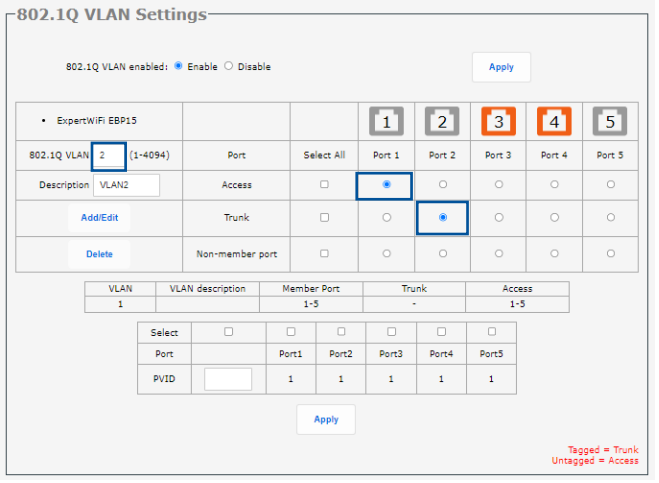
Items	Descriptions
VLAN	Default 1 By default, ports 1-5 are all in VLAN 1. To add or modify a VLAN, key in the VLAN ID and click **Add/Edit**; To delete a VLAN, key in the VLAN ID and click **Delete**.
Access	Configure an access port.
Trunk	Configure a trunk port.
Non-member port	The port is not a member of VLAN.

The following example shows hot to set up a VLAN:

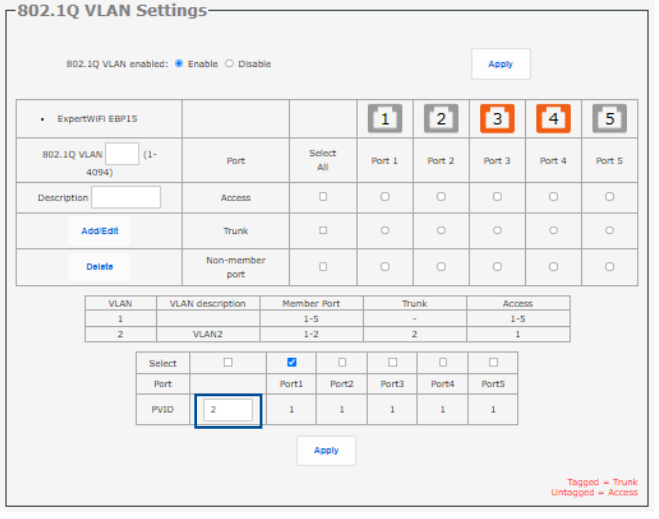
1. From 802.1Q VLAN Settings, select **Enable**.

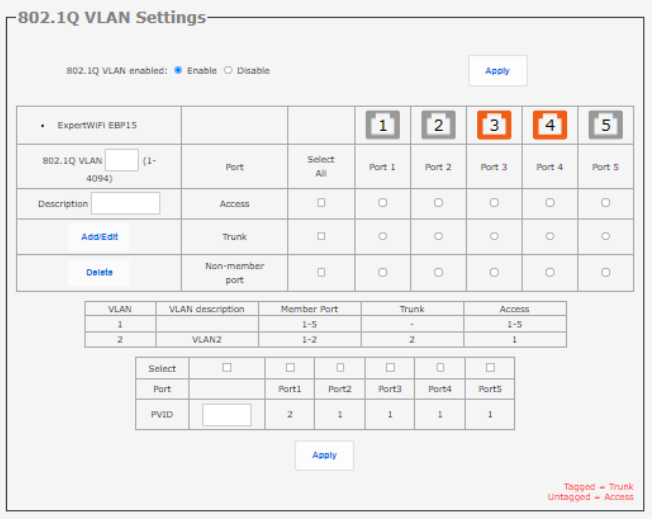


2. Key in a VLAN number (eg., 2), select Port 1 as an access port and Port 2 as an trunk port.



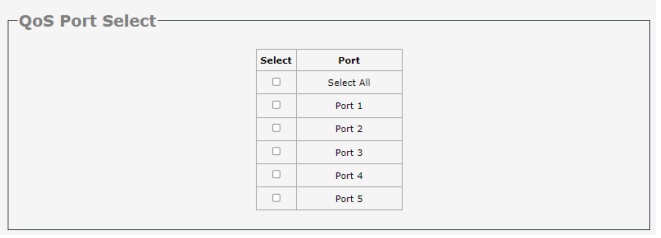
3. Modify the port's PVID to 2 and click **Apply**.

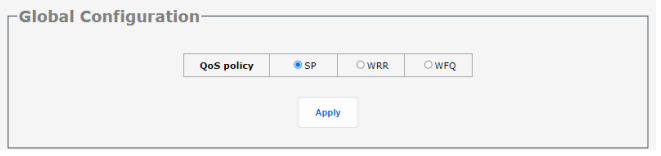



802.1Q VLAN Settings
802.1Q VLAN enabled: Enable Disable
Apply
ExpertWiFi EBP15
1 2 3 4 5
802.1Q VLAN (1-4094)
Port
Select All
Port 1 Port 2 Port 3 Port 4 Port 5
Description
Access
Add/Edit
Trunk
Delete
Non-member port
VLAN VLAN description Member Port Trunk Access
1 1-5 - 1-5
2 VLAN2 1-2 2 1
Select
Port Port1 Port2 Port3 Port4 Port5
PVID 2 1 1 1 1
Apply
Tagged = Trunk
Untagged = Access

4.4 QoS

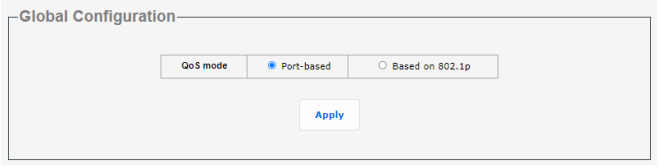
4.4.1 QoS Basic

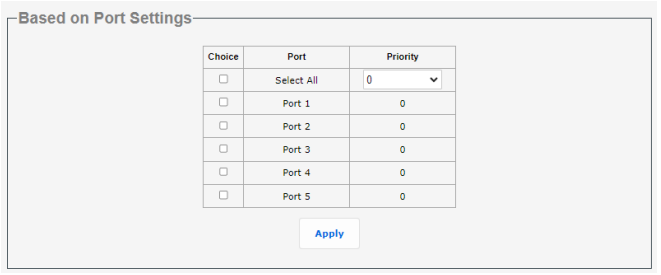


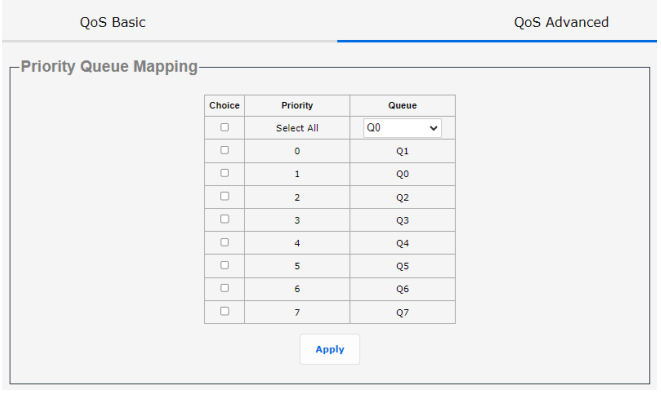


Items	Descriptions
Select	You can select a port to configure QoS.
QoS Policy	**SP** (strict priority): The strict priority queue is enabled by default. **WRR** (Weighted Round Robin): When selected, each queue gets a certain amount of service time. **WFQ** (Weighted Fair Queue): When selected, a certain amount of packets will be taken out from each queue and sent according to the bandwidth weighting. The priority of the packet will be included in the scheduling.
Queue to Weight	* Supports up to 8 queues (Q0, Q1, Q2, ... Q7) * Assigns bandwidth weighting for each queue

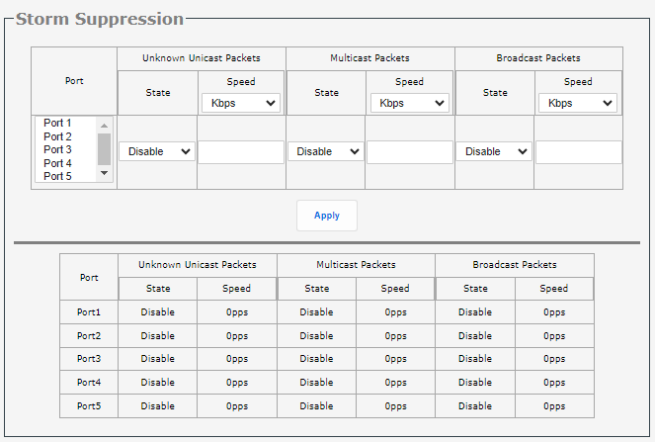
4.4.2 QoS Advanced







4.5 Security

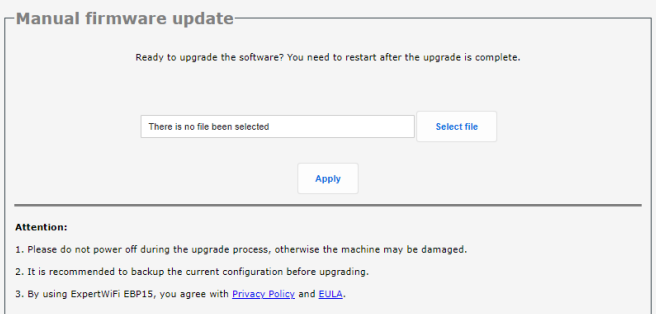


Items	Descriptions
Port	
Unknown unicast packet	**State**: The state is set to **Disable** by default (unlimit). **Speed**: [Kbps] The rate value range is 0-1000000. [PPS] The rate value range is 0-1000000.
Multicast packet	**State**: The state is set to **Disable** by default (unlimit). **Speed**: [Kbps] The rate value range is 0-1000000. [PPS] The rate value range is 0-1000000.
Broadcast packet	**State**: The state is set to **Disable** by default (unlimit). **Speed**: [Kbps] The rate value range is 0-1000000. [PPS] The rate value range is 0-1000000.

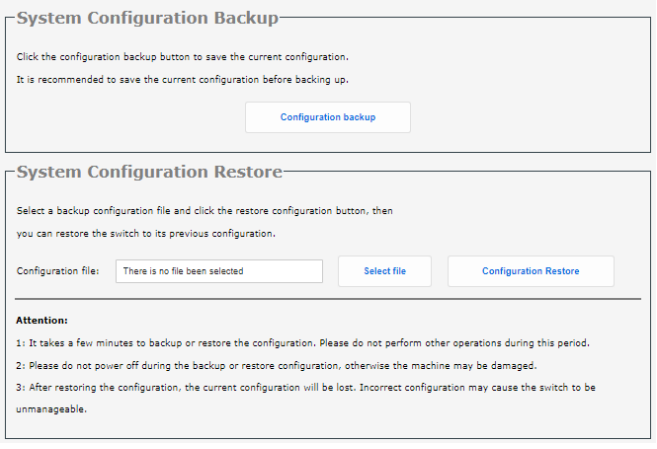
4.6 Tools

4.6.1 System Upgrade

Download the latest firmware and upgrade manually.



4.6.2 Backup and Restore

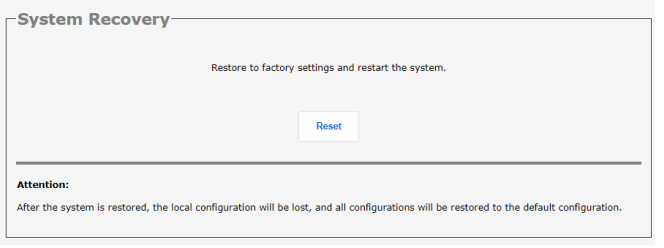


WARNINGS!

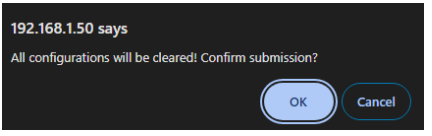
- It takes a few minutes to backup or restore the configurations. DO NOT perform other operations during the process.
- DO NOT power off during backup or restoration to avoid possible damage to the device.
- The current configuration will be cleared after restoration. If configured incorrectly, the switch can become unmanageable and may fail to operate.

4.6.3 System Reset

Click **Recovery** or **Reset** (factory default) to reset the system.

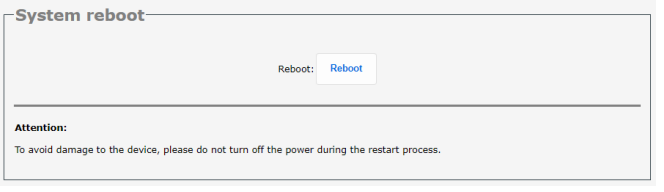


When a prompt appears, click **OK** to clear all the configurations and reset the system to factory defaults.

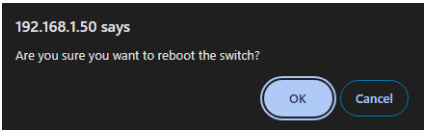


4.6.4 System Reboot

System reboot option:



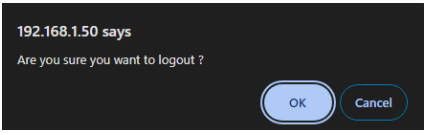
When a prompt appears, click **OK** to reboot the switch.

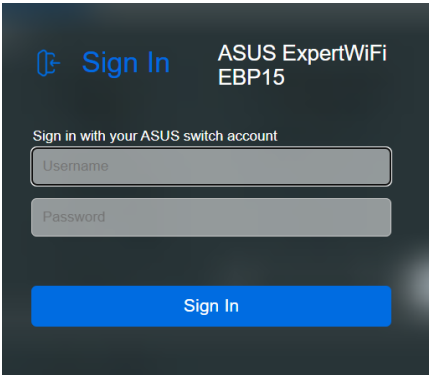


4.7 Logout

Click **Logout** to exit EBP15's management interface.

Click **OK** to log out.





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Version 2, June 1991

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- The power supply cord(s) must be plugged into socket-outlet(s) that is /are provided with a suitable earth ground. Connect the equipment only to a nearby socket outlet that is easily accessible.
- If the Adapter is broken, do not try to fix it by yourself. Contact a qualified service technician or your retailer.
- DO NOT use damaged power cords, accessories, or other peripherals.
- DO NOT mount this equipment higher than 2 meters.
- Use this product in environments with ambient temperatures between 0°C (32°F) and 40°C (104°F).
- Read the operational guidelines and the temperature range provided before using the product.
- Pay particular attention to the personal safety when using this device in airports, hospitals, gas stations and professional garages.
- Medical device interference: Maintain a minimum distance of at least 15 cm (6 inches) between implanted medical devices and ASUS products to reduce the risk of interference.
- Kindly use ASUS products in good reception conditions to minimize the radiation's level.
- Keep the device away from pregnant women and the lower abdomen of the teenager.
- DO NOT use this product if visible defects can be observed or it has been wet or damaged or modified. Seek servicing for assistance.

WARNING!

- DO NOT place on uneven or unstable work surfaces.
- DO NOT place or drop objects on the top of the product. Avoid exposing the product to mechanical shock such as crushing, bending, puncturing or shredding.
- DO NOT disassemble, open, microwave, incinerate, paint, or shove any foreign objects into this product.
- Refer to the rating label on the bottom of your product and ensure your power adapter complies with this rating.
- Keep the product away from fire and heat sources.
- DO NOT expose to or use near liquids, rain, or moisture. DO NOT use the product during electrical storms.
- Connect the PoE output circuits of this product exclusively to PoE networks, without routing to external facilities.
- To prevent electrical shock hazard, disconnect the power cable from the electrical outlet before relocating the system.
- Only use accessories that have been approved by the device manufacturer to work with this model. The use of other types of accessories may invalidate the warranty or violate local regulations and laws, and may pose safety risks. Contact your local retailer for the availablity of authorized accessories.
- Use of this product in a way not recommended in the provided instructions may result in a risk of fire or personal injury.

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