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GP-API200-90D-90D	Public
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Industrial Wireless AP Operating Manual

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GPSENKE NETWORK ICT

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I .Overview

1.1 Product

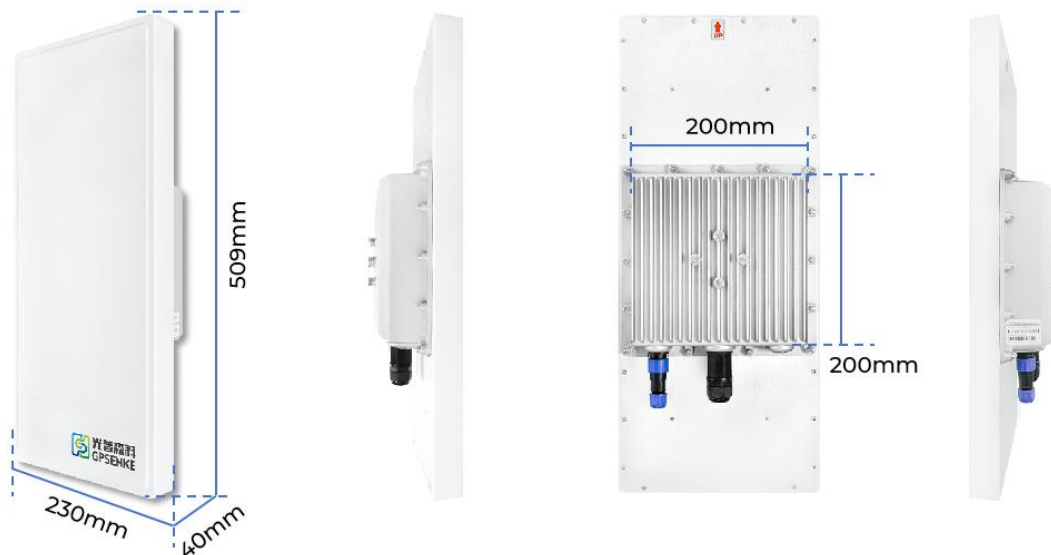


Fig1: GP-AP1200-90D-90D Device

GP-AP1200-90D-90D Series is a high-performance, high-speed dual-band wireless industrial outdoor access point designed based on IEEE 802.11ac wave2. It used Qualcomm chipset and supports 802.11 b / g / n / ac , the speed up to 1167M.

GP-AP1200-90D-90D features an integrated directional antenna with a maximum coverage of 500 meters. It features a professional integrated outdoor design with a built-in high-spec lightning protection module, eliminating the need for external lightning protectors. With an IP67 waterproof and dustproof rating and a wide temperature range working capability, it is highly convenient for outdoor installation and debugging. It is widely used in harsh outdoor environments, including extreme temperatures ranging from -40°C to 80°C, as well as high cold, high humidity, and other challenging conditions, ensuring stable operation.

1.2 Power Supply

This device supports POE 48V (802.3at) power supply, providing stable power delivery with safeguards against loose connections and power drops. Power and data are transmitted over the same Ethernet cable, enhancing ease of installation and improving both communication and power supply reliability.



- Recommend using shielded Cat5e or Cat6 cables.
- Use a power module supporting the 802.3at standard.

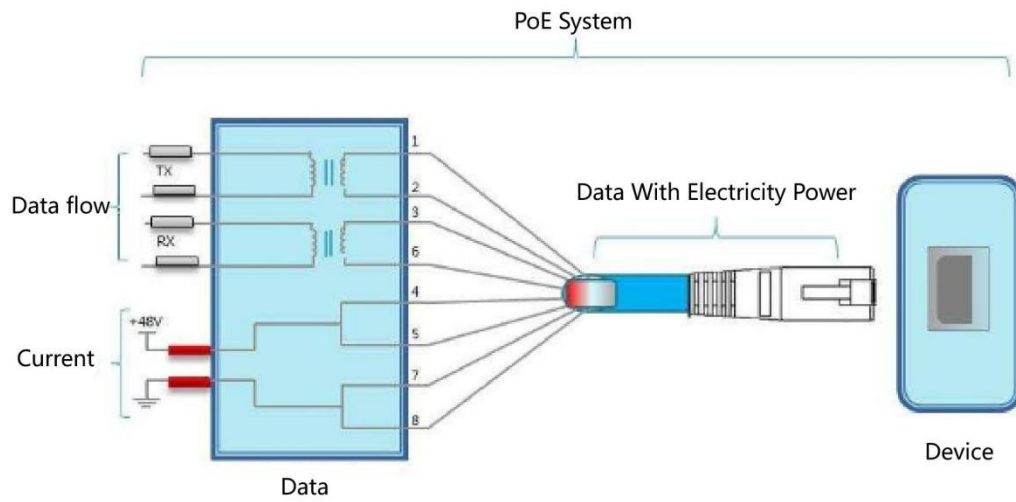


Fig2: PoE Power Supply

II. Web Deploy

2.1 Device WEB login

After powering on the AP device, ensure the computer's wired network interface is set to the same subnet as the AP device(**255.255.255.0**)

Connect the computer to the AP's LAN port, then open a web browser and enter the device address (**default: 172.16.10.10**) to log in.

Username: gpthink Password: gpthink@123

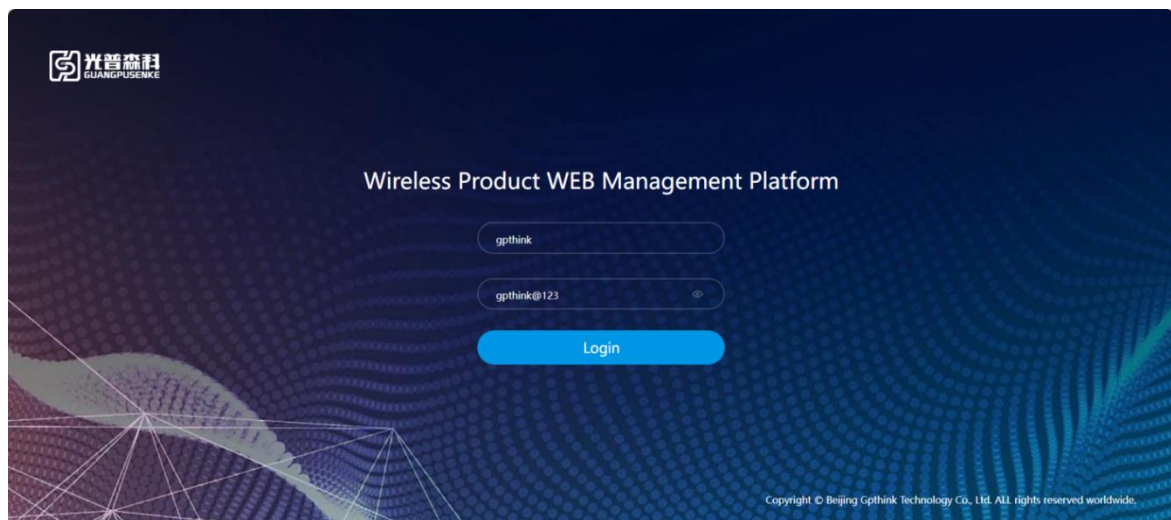


Fig3: Log in Web

2.2 Home Layout

After logging in, you can view the system status, connected users, current traffic, network status and other device information on the "Overview" on the home page.

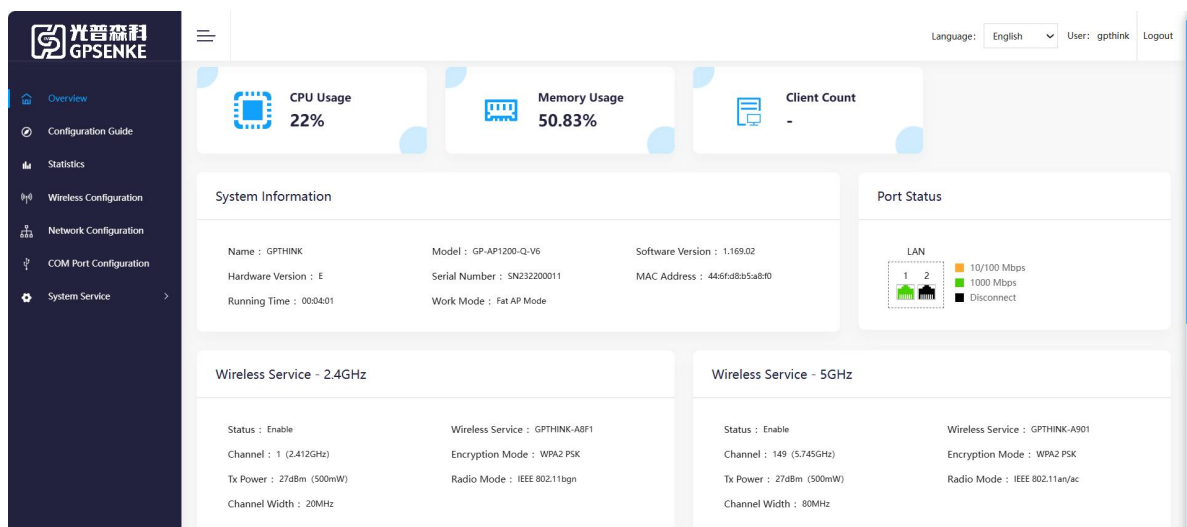


Fig4: Website Overview

III Function Deploy

Overview function are list for:

- Overview
- Configuration Guide
- Statistics
- Wireless Configuration
- Network Configuration
- COM Port Configuration
- System Service

3.1 Overview

On “Overview”, you can check device information such as system status, wireless parameter,DHCP Server parameter,WAN parameter.

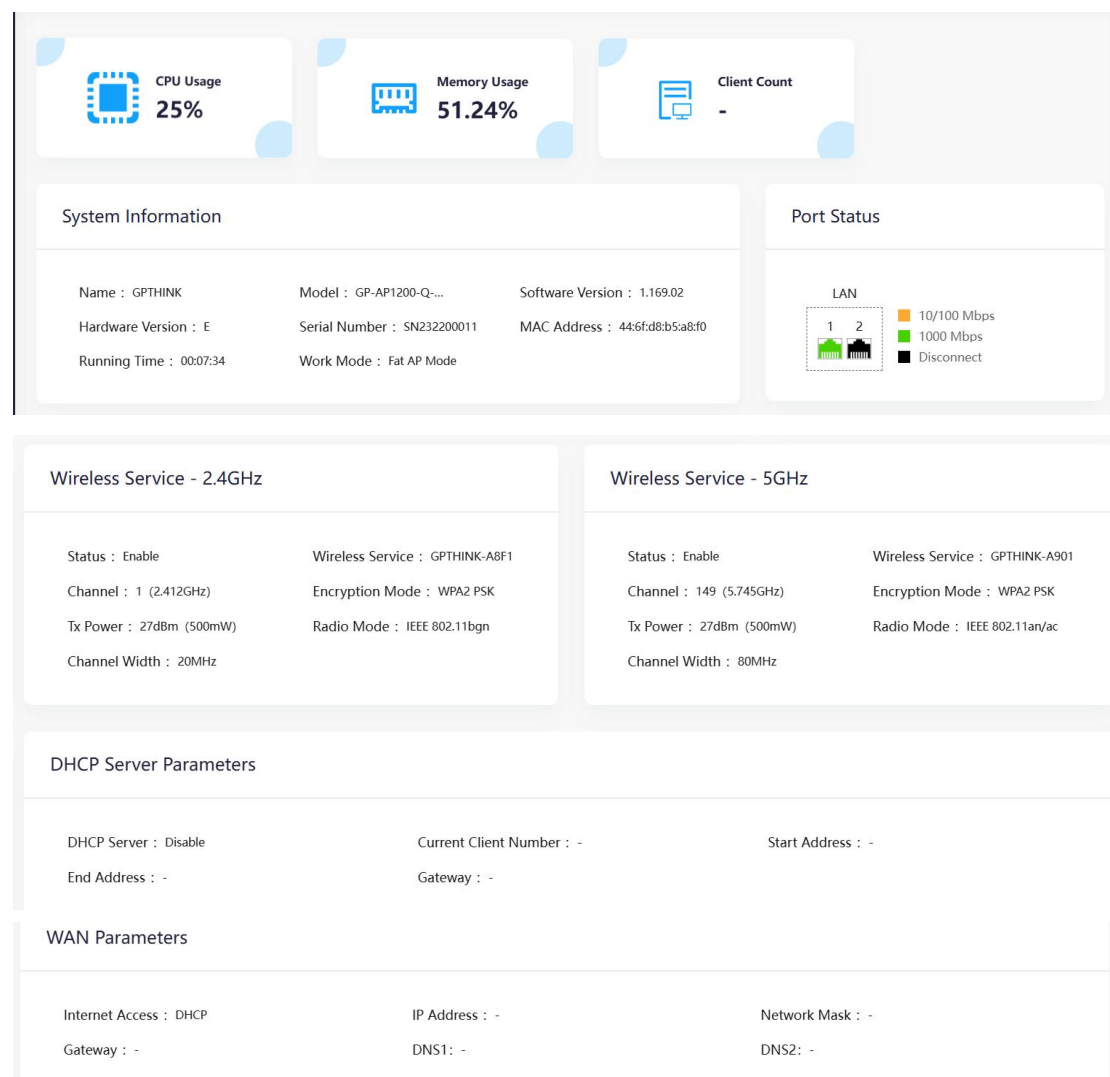


Fig5: GP-AP1200-90D Overview

Description of the status information:

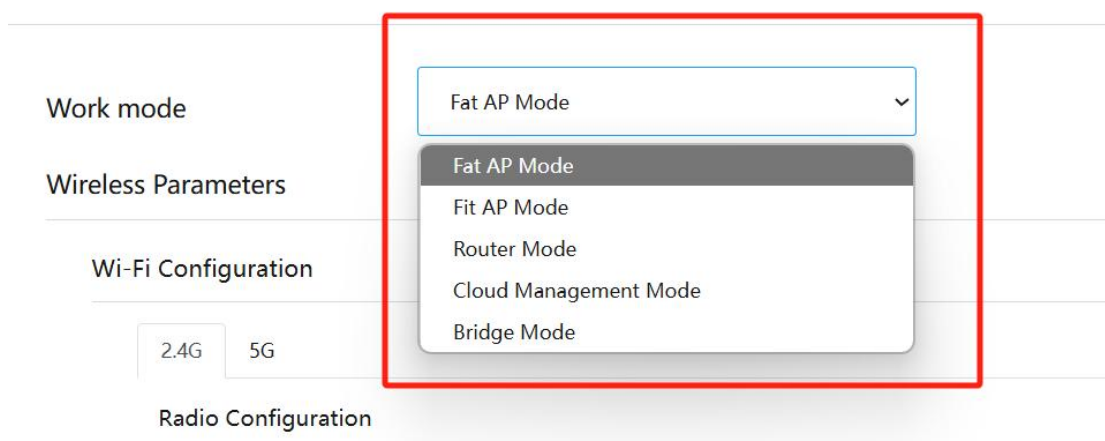
No.	Name	Describe
1	Real-time Status	Displays the current CPU utilization, memory utilization, the signal strength of the currently connected SSID, and the current connection rate.
2	System Information	Display device model, software version, hardware version, serial number, MAC address, management address, running time and other information.
3	Wireless Parameters	Displays the current wireless side working mode, connection status, associated SSID, wireless side IP address, radio frequency, channel, encryption authentication mode and other information. That is, the uplink network of the AGV.
4	DHCP Service Parameters	Displays the current DHCP server status on the wired network side, the current number of users, the address pool range, and DNS information. That is, the downlink network DHCP configuration information of the AGV.
5	WAN Parameters	Displays the connection status information on the current limited network side, such as IP, subnet, etc.

3.2 Configuration Guide

GP-AP1200-90D Wireless Client Device support five work-modes:

- **FAT AP**
- **FIT AP**
- **Router**
- **Cloud Management Mode**
- **Bridge Mode**

Wireless Configuration



The screenshot shows the configuration interface for the GP-AP1200-90D device. The 'Work mode' section is highlighted with a red box, and the dropdown menu is open, showing the following options: Fat AP Mode (selected), Fit AP Mode, Router Mode, Cloud Management Mode, and Bridge Mode. Below the 'Work mode' section, there are tabs for '2.4G' and '5G' under the 'Wireless Parameters' section, and a 'Radio Configuration' section.

Fig6: GP-AP1200-90D Work Mode

3.3 Statistics

On “Statistics” page, you can check the DHCP Address List & Client List.

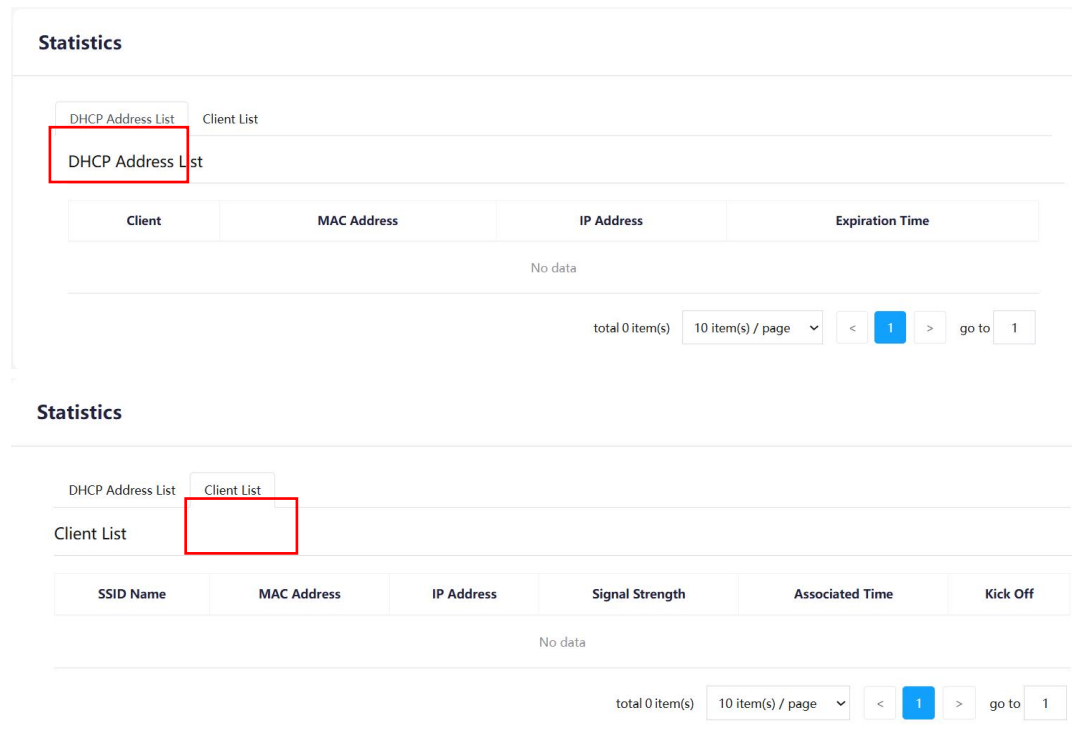


Fig7: Statistics

3.4 Wireless Configuration

Wireless configuration can be set as different modes: FIT AP, Fat AP, Gateway, or Bridge. The commonly used modes are “FIT AP” and “Fat AP”. You can switch the AP's operating mode within the wireless configuration settings.

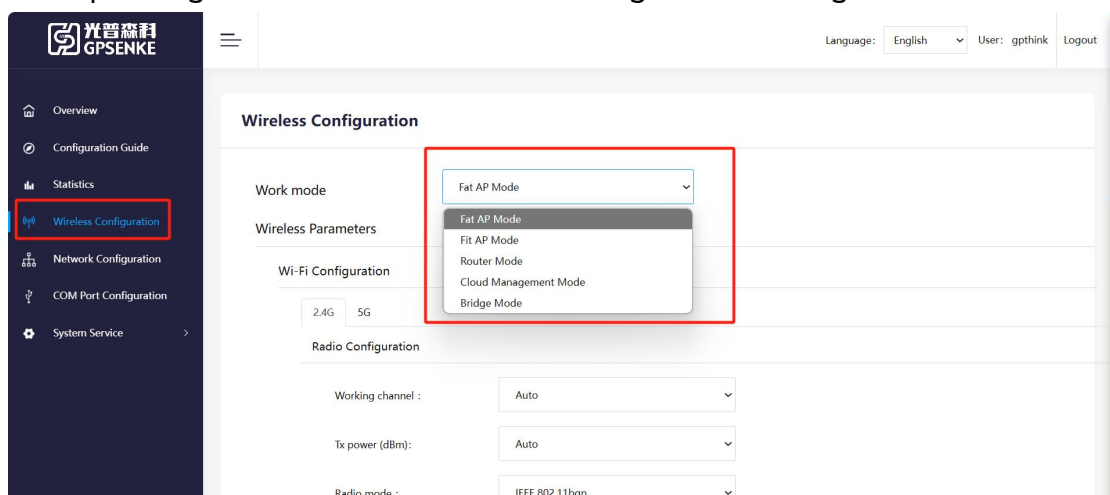


Fig8: Wireless AP Working Mode

FAT (Fat AP) Mode

The AP operates independently with local configuration and management, handling all wireless functions on its own. Suitable for smaller setups.

FIT (Thin AP) Mode

The AP relies on a centralized wireless controller (AC) for configuration and management. Ideal for larger deployments requiring centralized control.

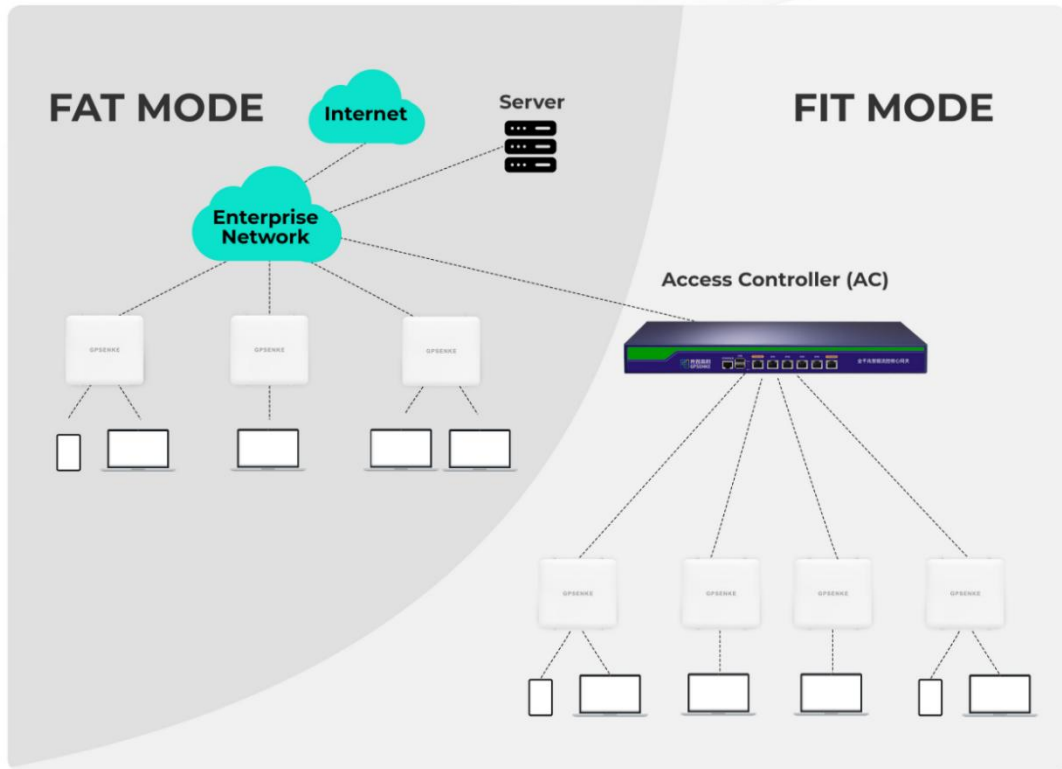


Fig9: FAT AP & FIT AP

3.5 Network Configuration

In network configuration, the AP management IP can be set in two ways:

- **DHCP:** The IP is assigned automatically by a DHCP server.
- **Static Address :** The IP is manually specified by the user.

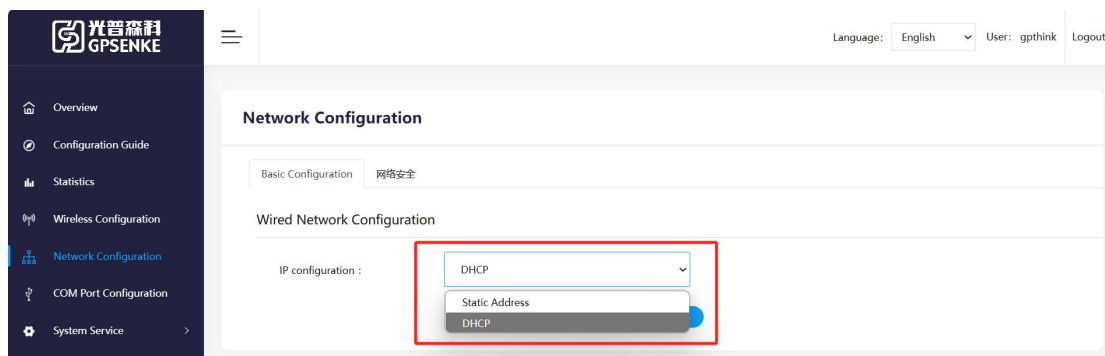


Fig10: DHCP & Static IP Address

3.6 System Service

System Service is divided into “Device Management” and “Log Management”:

3.6.1 Device Management

- **System Time:** Adjust the AP system time by configuring a time server.

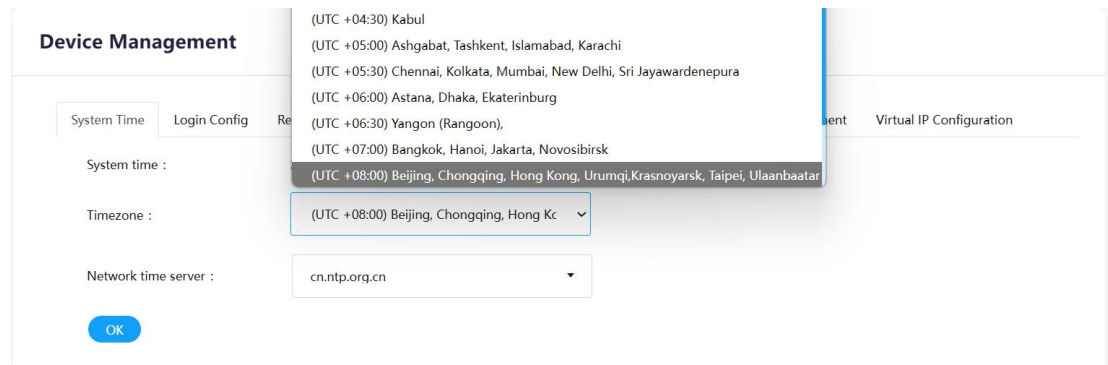


Fig11: System Time

- **Login Config:** Change the login password and WEB port number settings.

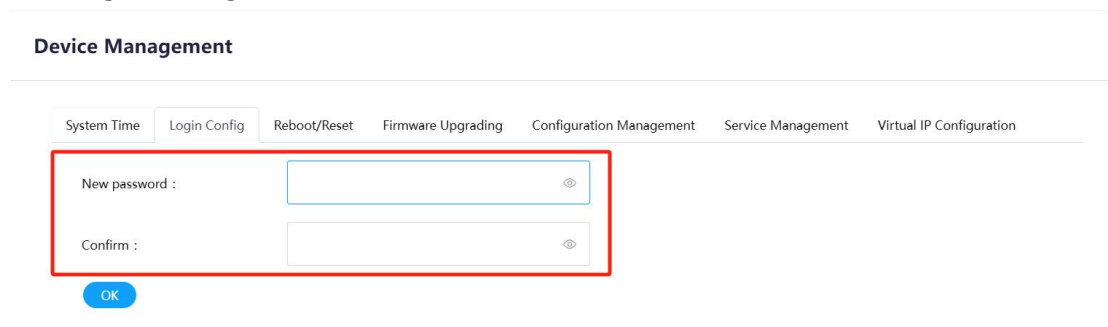


Fig12: Login Configuration

- **Reboot/Reset:** Restart the device or restore it to factory settings.

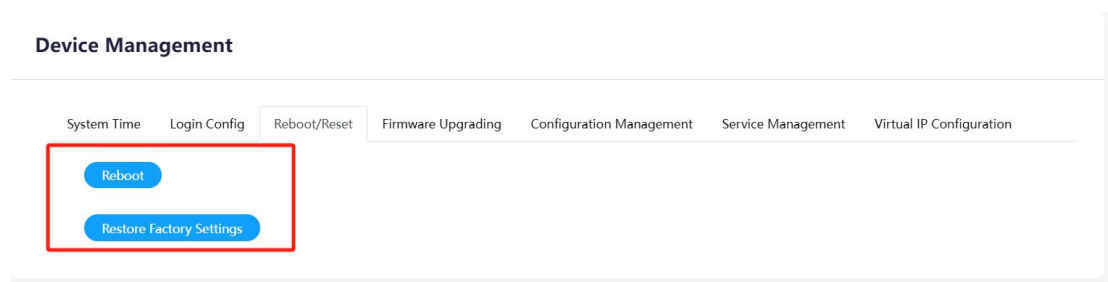


Fig13: Reboot/Reset

- **Firmware Update:** Upgrade the firmware here. For all modes except Thin AP, select the option to restore to factory settings during the update.

Device Management

System Time

Login Config

Reboot/Reset

Firmware Upgrading

Configuration Management

Service Management

Virtual IP Configuration

Restore factory settings after upgrade :

No

Firmware file :

Please select file.....

Select...

Upgrade

Fig14: Firmware Upgrading

➤ **Configuration Management:** Import or export device configurations.

Device Management

System Time

Login Config

Reboot/Reset

Firmware Upgrading

Configuration Management

Service Management

Virtual IP Configuration

Import Config

Export Config

Fig15: Configuration Management

➤ **Service Management**

Device Management

System Time

Login Config

Reboot/Reset

Firmware Upgrading

Configuration Management

Service Management

Virtual IP Configuration

* ☐ Enable HTTP

Port :

80

* ☒ Enable HTTPS

Port :

443

* ☐ Enable SSH

Port :

22

OK

Fig16: Service Management

➤ **Virtual IP Configuration**

Device Management

System Time

Login Config

Reboot/Reset

Firmware Upgrading

Configuration Management

Service Management

Virtual IP Configuration

* IP address :

172.16.10.10

* Network mask :

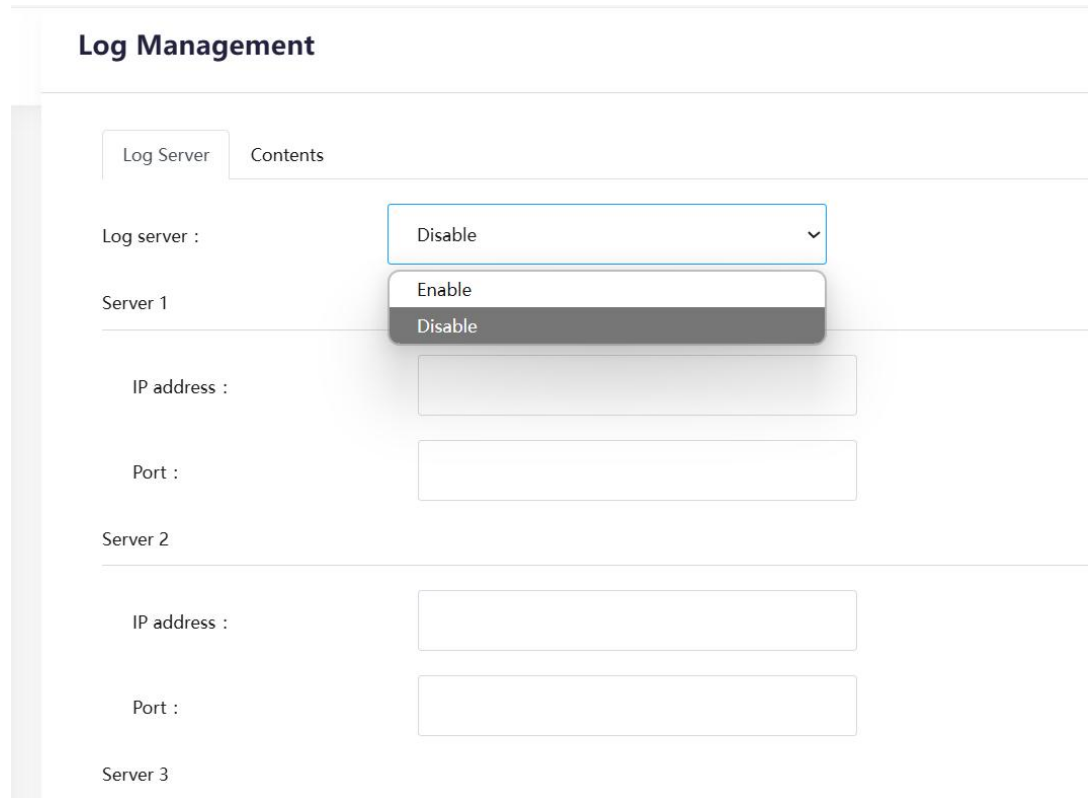
255.255.255.0

OK

Fig17: Virtual IP Configuration

3.6.2 Log Management

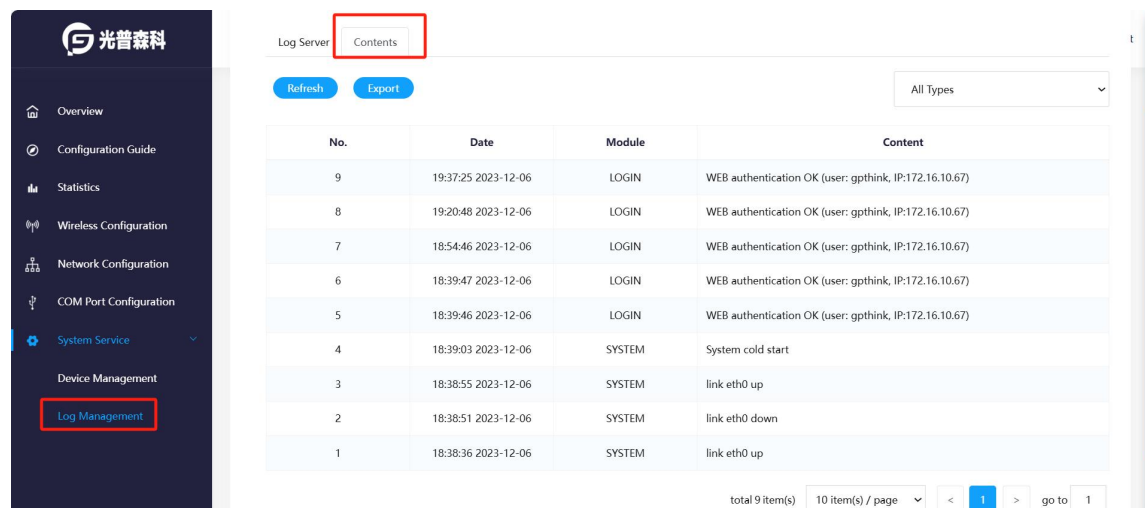
- Log Server Configuration: Specify the address of the log server.



The interface shows the 'Log Management' section with two tabs: 'Log Server' and 'Contents'. Under the 'Log Server' tab, there are three server configuration sections (Server 1, Server 2, Server 3). Each section has a 'Log server' dropdown menu (currently set to 'Disable'), an 'IP address' text input field, and a 'Port' text input field.

Fig18: Log Server

- Log Content: View or export the log entries.



The interface shows the 'Log Content' section with a table of log entries. The table has columns: No., Date, Module, and Content. The 'Contents' tab is selected and highlighted with a red box. The table shows 9 log entries, with the first entry being 'link eth0 up' and the last being 'WEB authentication OK (user: gpthink, IP:172.16.10.67)'. The 'Log Server' tab is also visible and highlighted with a red box.

No.	Date	Module	Content
9	19:37:25 2023-12-06	LOGIN	WEB authentication OK (user: gpthink, IP:172.16.10.67)
8	19:20:48 2023-12-06	LOGIN	WEB authentication OK (user: gpthink, IP:172.16.10.67)
7	18:54:46 2023-12-06	LOGIN	WEB authentication OK (user: gpthink, IP:172.16.10.67)
6	18:39:47 2023-12-06	LOGIN	WEB authentication OK (user: gpthink, IP:172.16.10.67)
5	18:39:46 2023-12-06	LOGIN	WEB authentication OK (user: gpthink, IP:172.16.10.67)
4	18:39:03 2023-12-06	SYSTEM	System cold start
3	18:38:55 2023-12-06	SYSTEM	link eth0 up
2	18:38:51 2023-12-06	SYSTEM	link eth0 down
1	18:38:36 2023-12-06	SYSTEM	link eth0 up

total 9 item(s) 10 item(s) / page 1 go to 1

Fig19: Contents