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GP-AP1200	Public
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V1.6	

Industrial Wireless AP

Operating Manual

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GPSENKE NETWORK ICT

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I .Overview

1.1 Product

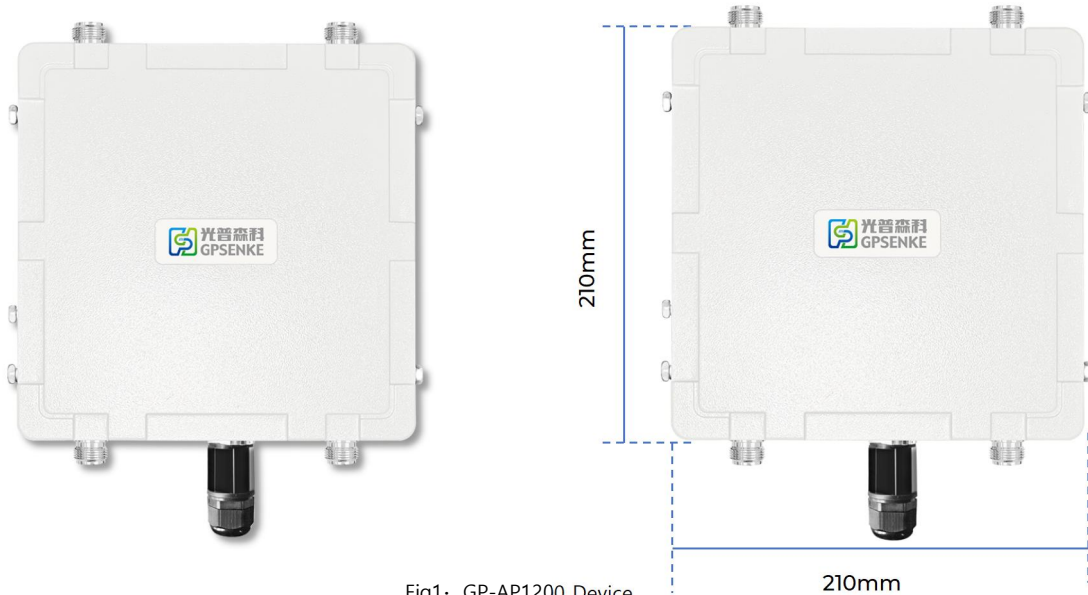


Fig1: GP-AP1200 Device

GP-AP1200-Q-V6 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-Q-V6 Series compliant with IP67 waterproof and dustproof standards and approvals covering operating temperature, power input voltage, surge, ESD, and vibration. It can be widely used in wireless network coverage in industrial outdoor places such as oil&gas, Mining industry, Chemical Refinery factory, intelligent warehousing, automation factory, underground pipe gallery, school, park, scenic spot, amusement park and etc.

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.

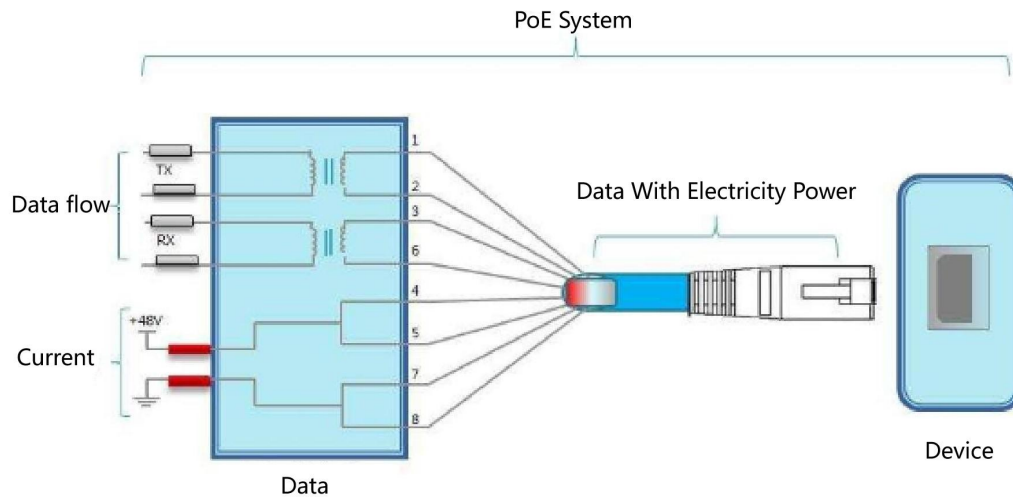


Fig2: PoE Power Supply

1.3 Antenna Installation

The standard device features four N-type female RF connectors: two for 2.4G and two for 5.8G. External omnidirectional or directional panel antennas can be connected as required by the project. (The 2.4G and 5.8G interfaces are marked on the casing.)

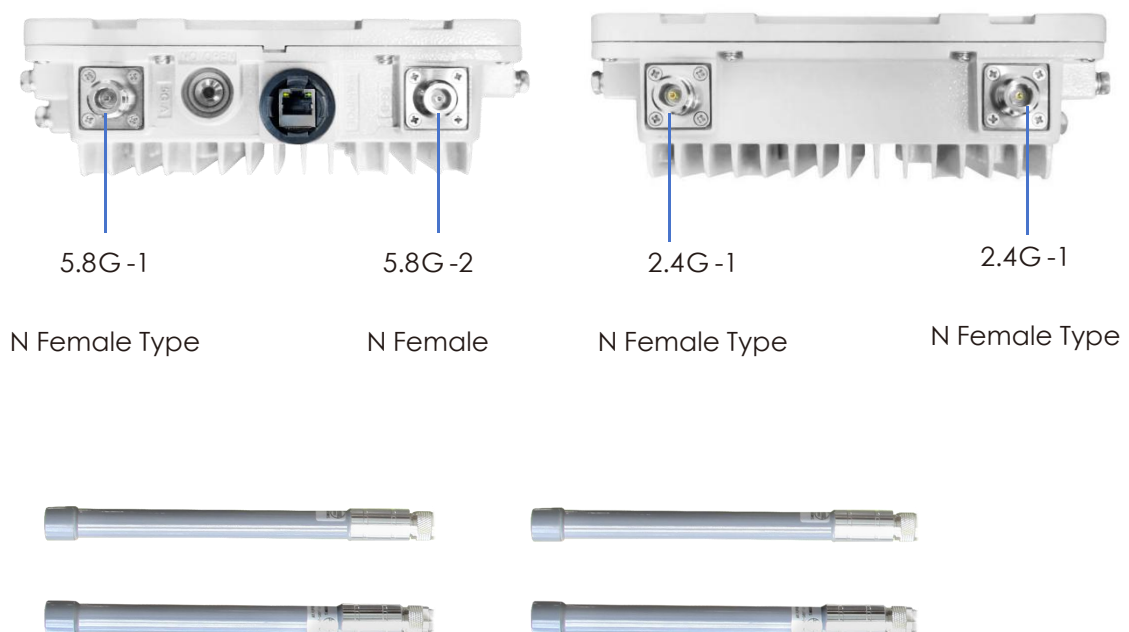


Fig3: Antenna Interface & External Antenna

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

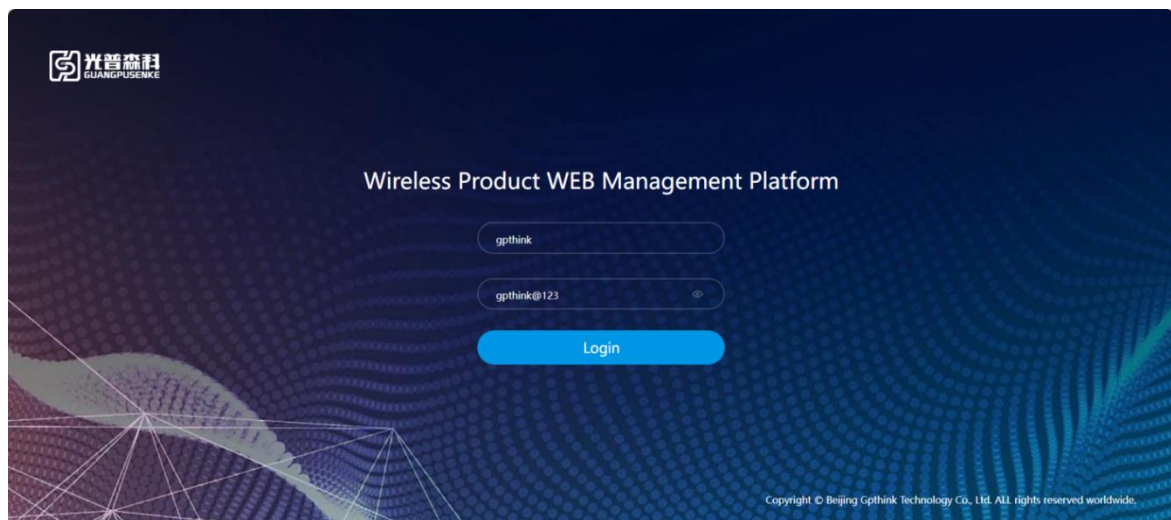


Fig4: Log in Web

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.

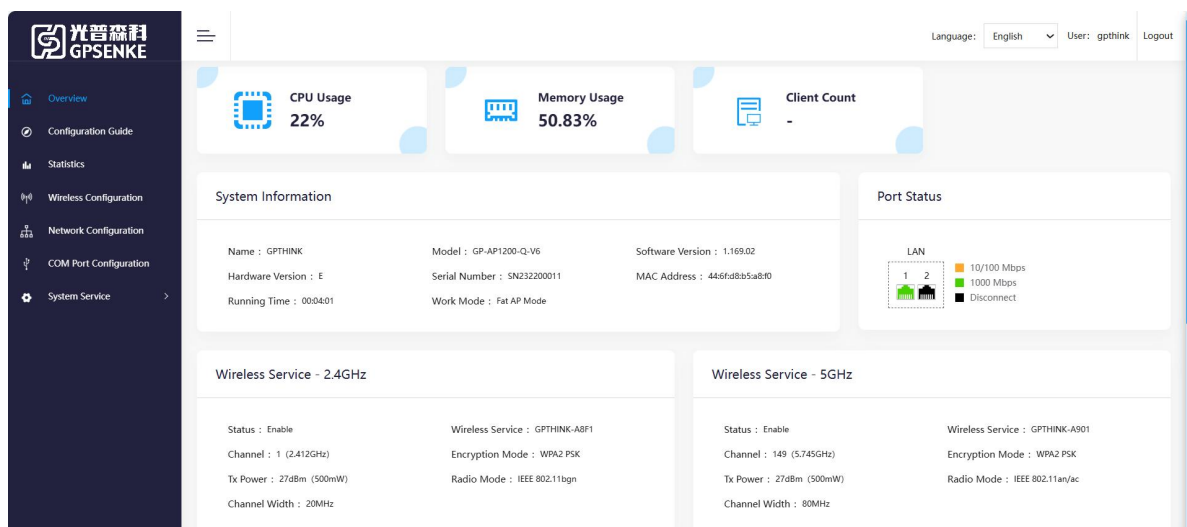


Fig5: Website Overview

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.

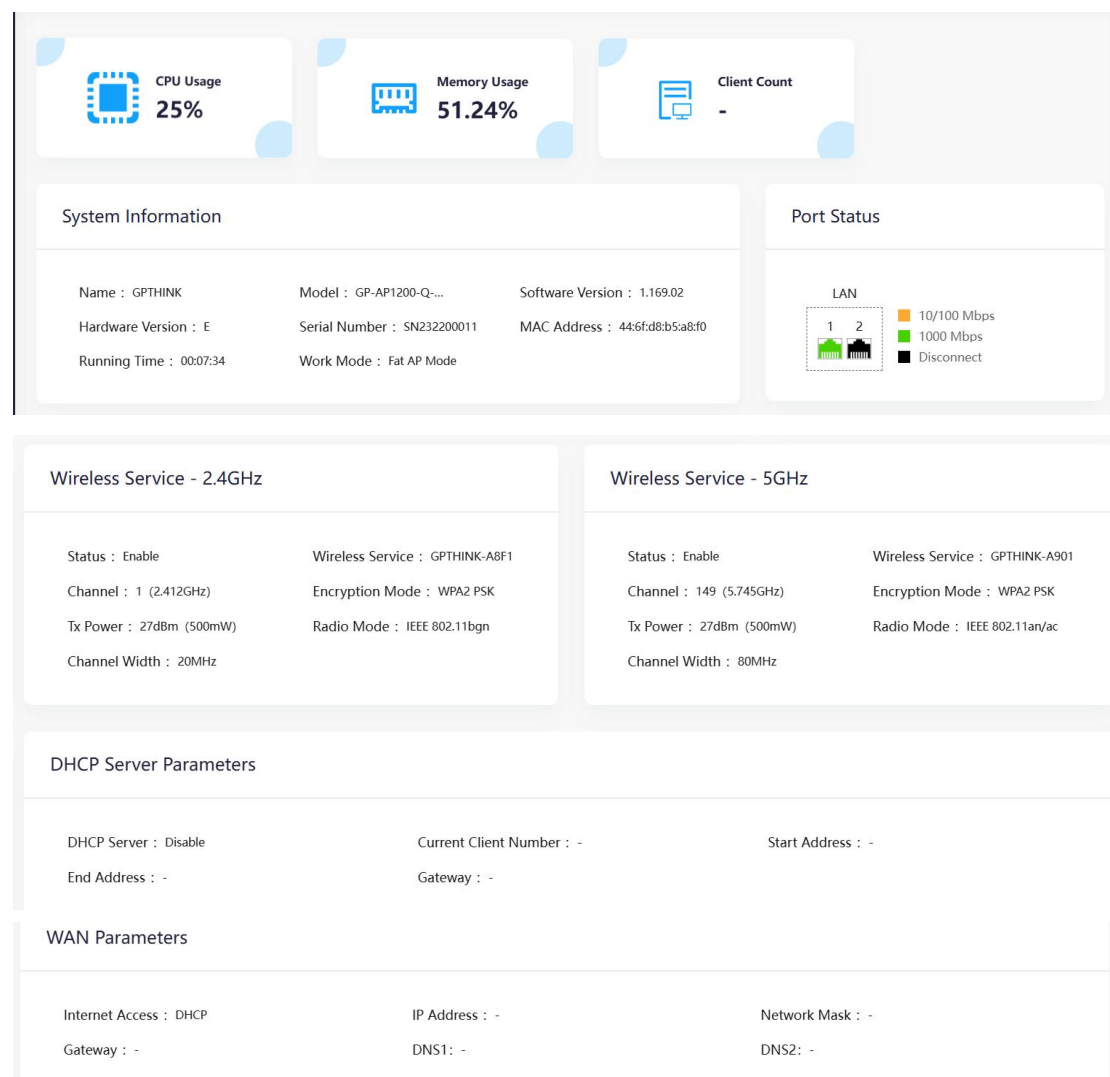


Fig6: GP-AP1200 Overview

Description of the status information:

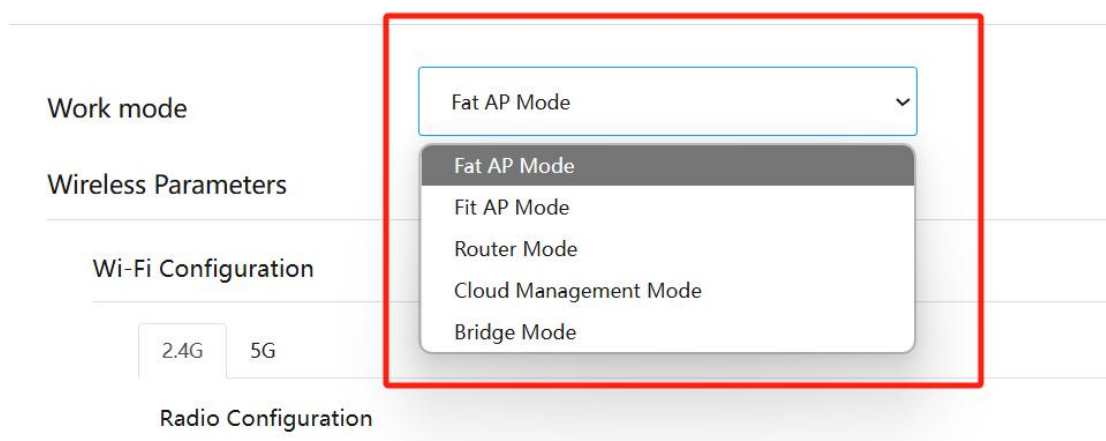
No.	Name	Describe
1	Real-time Status	Displays the current CPU utilization, memory utilization, the signal strength of the currently connected SSID, and the current connection rate.
2	System Information	Display device model, software version, hardware version, serial number, MAC address, management address, 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 Wireless Client Device support five work-modes:

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

Wireless Configuration

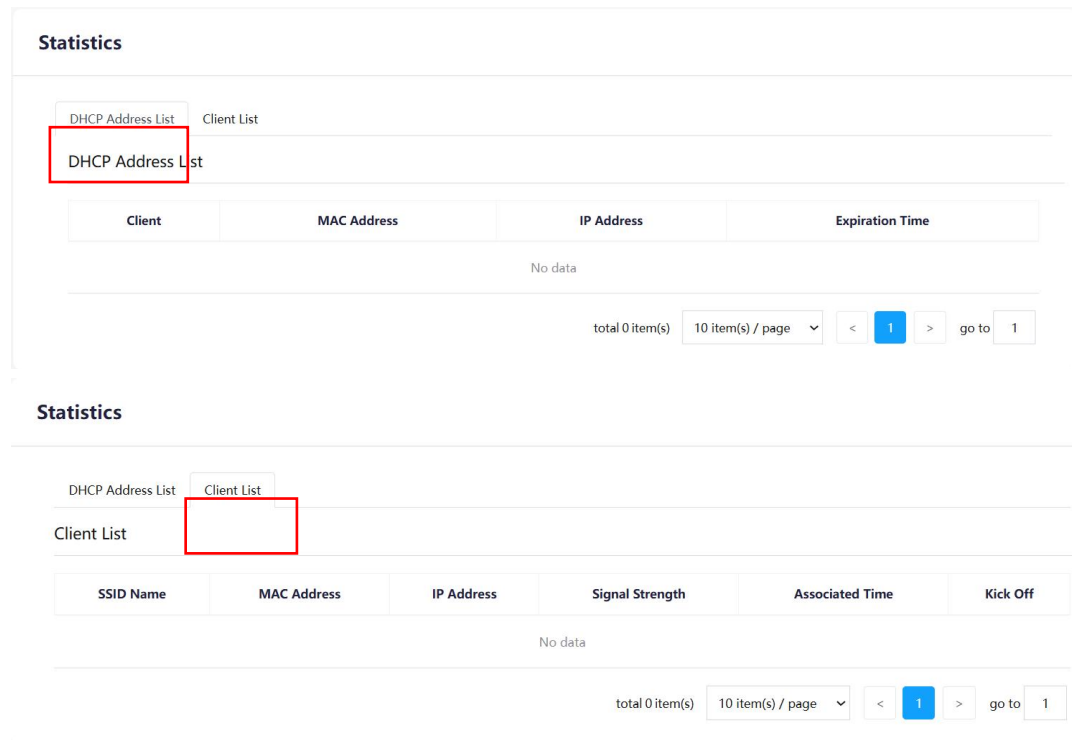


The screenshot shows the configuration interface for the GP-AP1200 device. The 'Work mode' section is highlighted with a red box. A dropdown menu is open, showing the following options: Fat AP Mode (selected), Fit AP Mode, Router Mode, Cloud Management Mode, and Bridge Mode. Below the 'Work mode' section,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

Fig7: GP-AP1200 Work Mode

3.3 Statistics

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



Statistics

DHCP Address List Client List

DHCP Address List

Client	MAC Address	IP Address	Expiration Time
No data			

total 0 item(s) 10 item(s) / page < 1 > go to 1

Statistics

DHCP Address List Client List

Client List

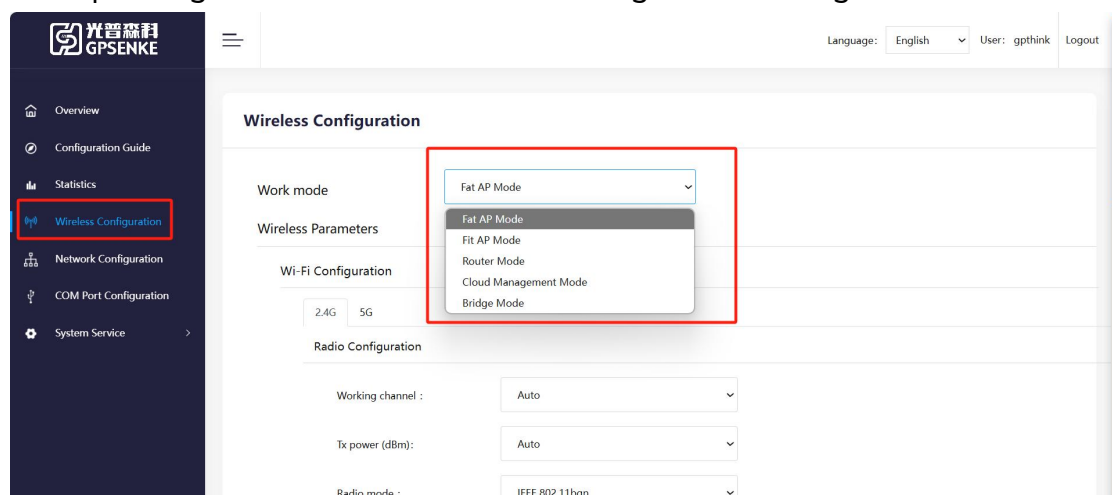
SSID Name	MAC Address	IP Address	Signal Strength	Associated Time	Kick Off
No data					

total 0 item(s) 10 item(s) / page < 1 > go to 1

Fig8: 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.



Language: English User: gpthink Logout

Wireless Configuration

Work mode: Fat AP Mode

Wireless Parameters

Wi-Fi Configuration

2.4G 5G

Radio Configuration

Working channel: Auto

Tx power (dBm): Auto

Radio mode: IEEE 802.11bgn

Fig9: 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.

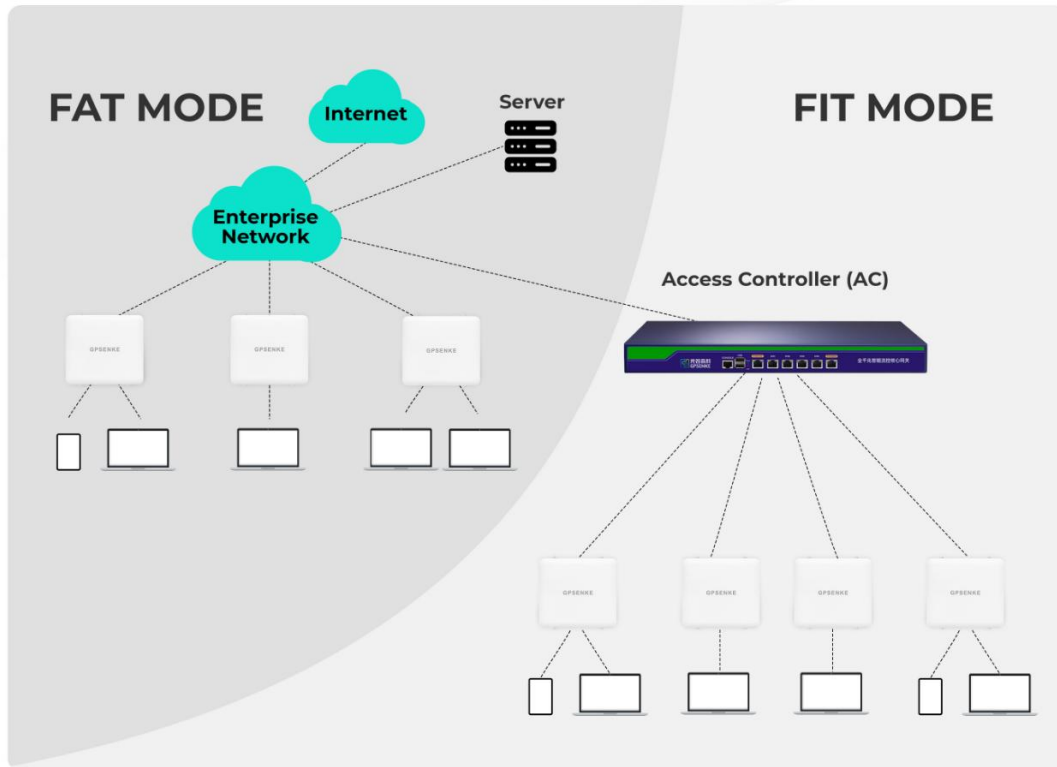


Fig10: FAT AP & FIT AP

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.

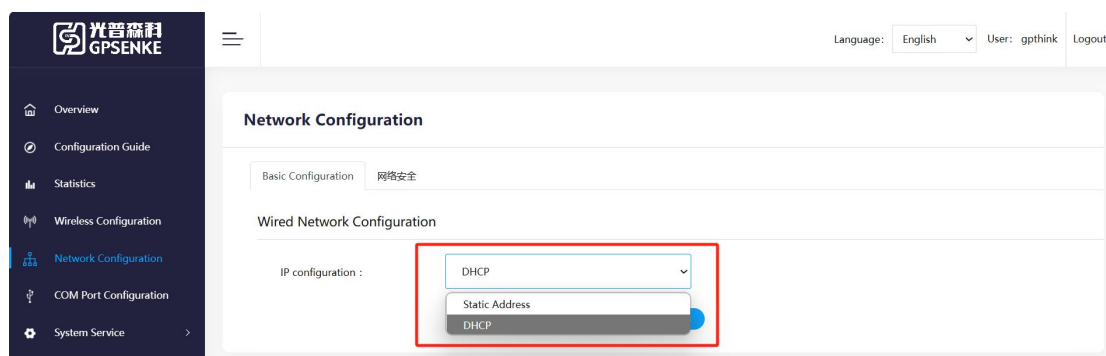


Fig11: DHCP & Static IP Address

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.

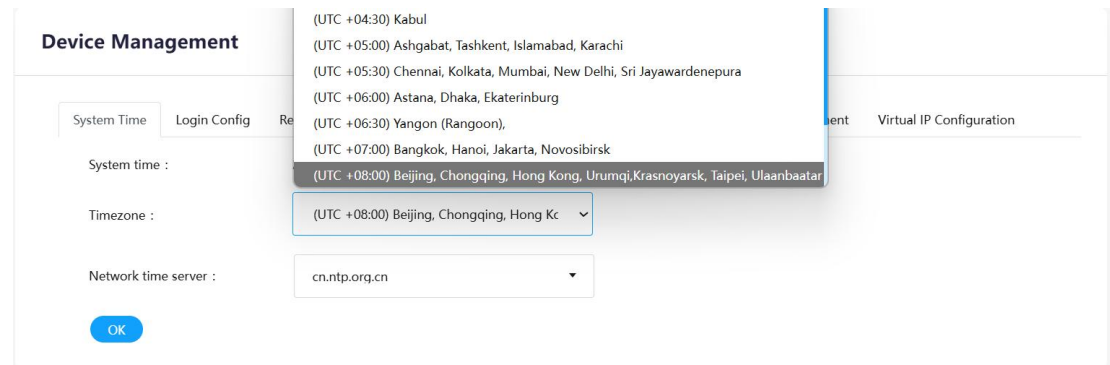


Fig12: System Time

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

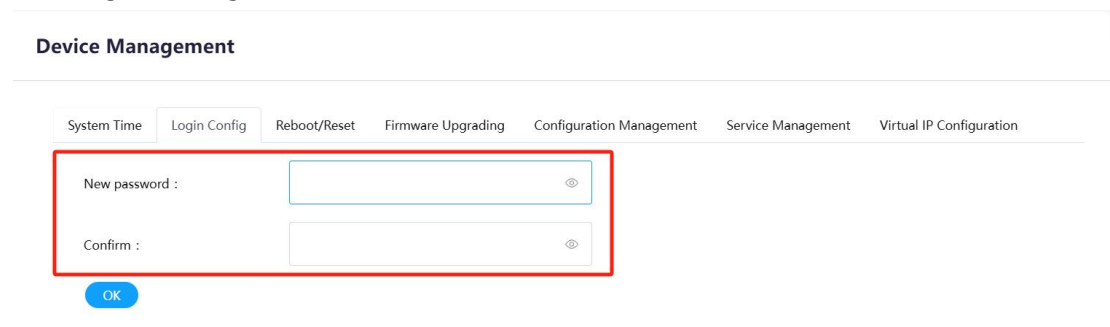


Fig13: Login Configuration

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

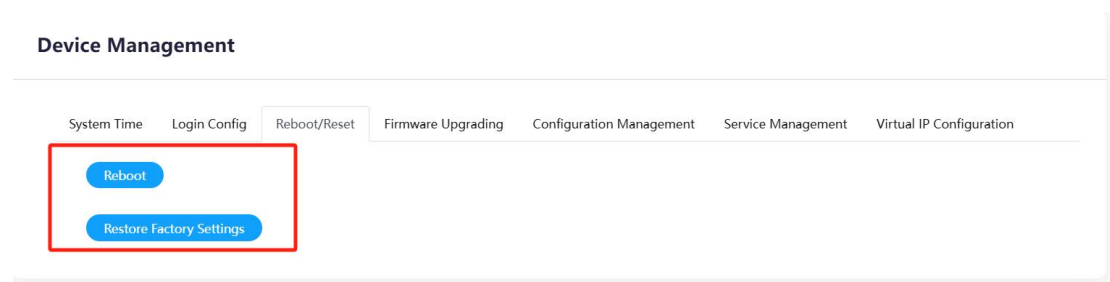


Fig14: Reboot/Reset

- **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

Fig15: 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

Fig16: 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

Fig17: 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 :

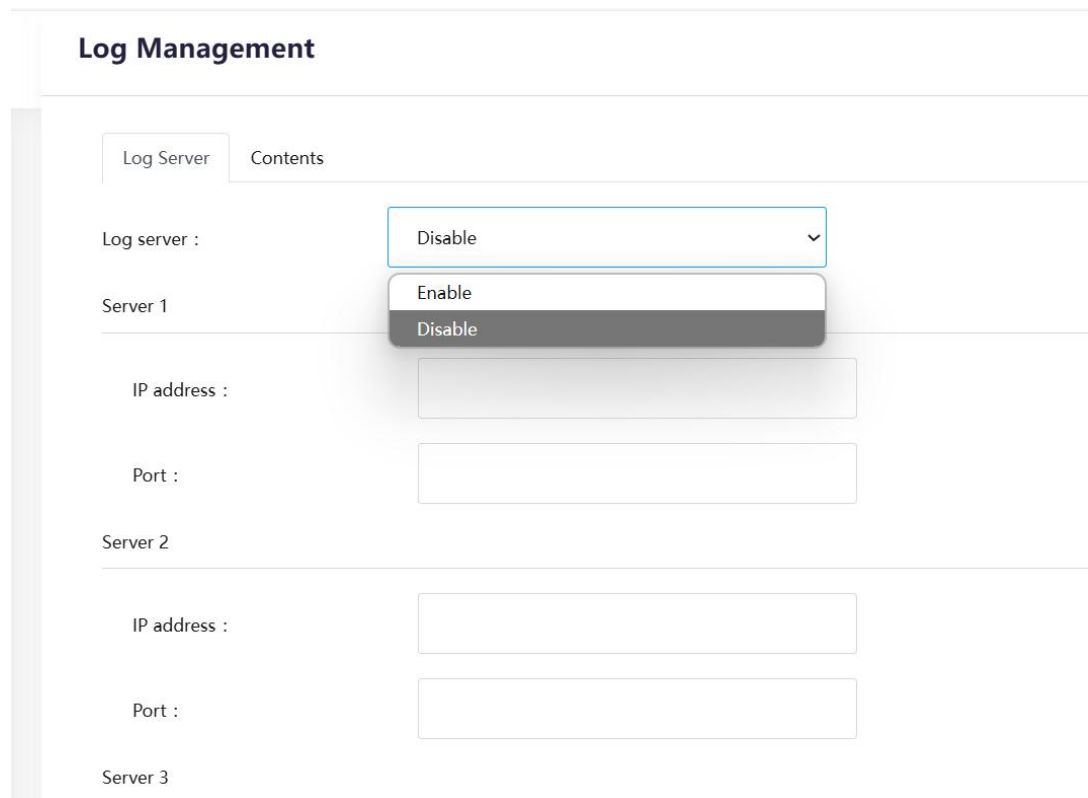
255.255.255.0

OK

Fig18: Virtual IP Configuration

3.6.2 Log Management

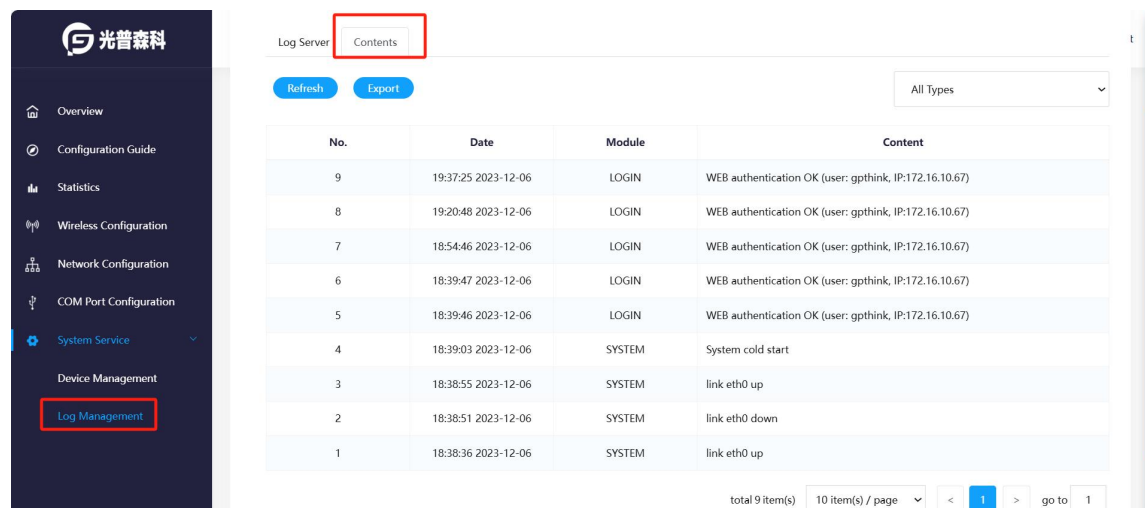
- Log Server Configuration: Specify the address of the log server.



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. A dropdown menu is open for the 'Log server' of Server 1, showing 'Enable' and 'Disable' options.

Fig19: Log Server

- Log Content: View or export the log entries.



The interface shows the 'Log Content' section with a sidebar on the left containing navigation links: Overview, Configuration Guide, Statistics, Wireless Configuration, Network Configuration, COM Port Configuration, System Service (selected), and Device Management. The 'Log Management' link under Device Management is highlighted. The main area shows a table of log entries with columns: No., Date, Module, and Content. The table contains 9 entries. Above the table are buttons for 'Refresh' and 'Export', and a dropdown for 'All Types'. At the bottom, there is a pagination bar showing 'total 9 item(s)', '10 item(s) / page', and navigation controls.

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

Fig20: Contents