

Dual Band 802.11be 5100Mbps Outdoor Wireless AP

WDAP-5100BE

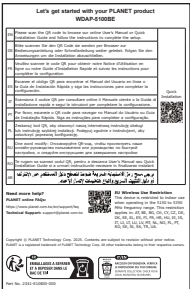
Quick Installation Guide

Table of Contents

1. Package Contents	3
2. Physical Introduction	4
3. Hardware Installation	6
4. Connecting the AP (for Windows OS)	8
5. Wired Network Configuration (Windows 10 and Windows 11)	9
6. Entering into the Web Management.....	10
7. Wireless Network Connection	12
8. AP Discovery through PLANET NMS Controller (NMS-500/NMS-1000V).....	13
9. PLANET CloudNMS App (Android & iOS)	14
Further Information:	22

1. Package Contents

Thank you for choosing PLANET Outdoor Wireless AP. Before installation, please verify that the package contains the following items:

WDAP-5100BE	CloudNMS App Sheett	QR Code Sheet
 Antennas are not included		
L-type Bracket x 1	U-bolt Kit x 2	Screw Set x 1 Waterproof Covers x 3
		



Note

If there is any item missing or damaged, please contact the seller immediately.



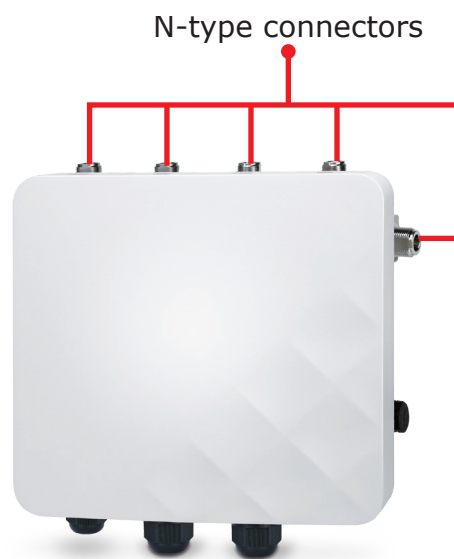
Caution

IMPORTANT SAFETY PRECAUTIONS:

- LIVES MAY BE AT RISK!** Please be aware of the electrical wires around. Carefully read the section **"OUTDOOR INSTALLATION WARNING"** in the manual before installation.
- Users **MUST** properly ground the device. Otherwise, a sudden lightning strike could cause fatal damage. Lightning/EMD damage is **NOT** covered under warranty.
- Power off the device before connecting any external antennas to prevent damage.

2. Physical Introduction

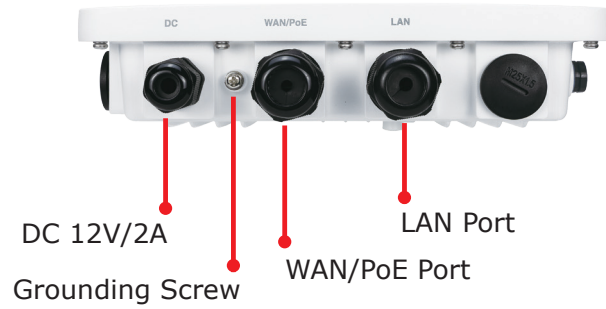
Front Side



Rear Side



Bottom Side



Left Side



Note

1. Open the waterproof cover and press the Reset button for more than 5 seconds to reset the device to factory default.
2. This device does not include antennas. Compatible external antennas must be purchased separately.

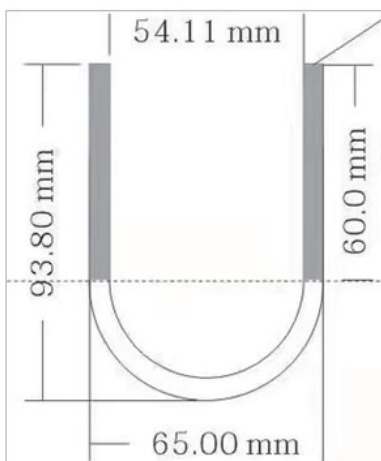
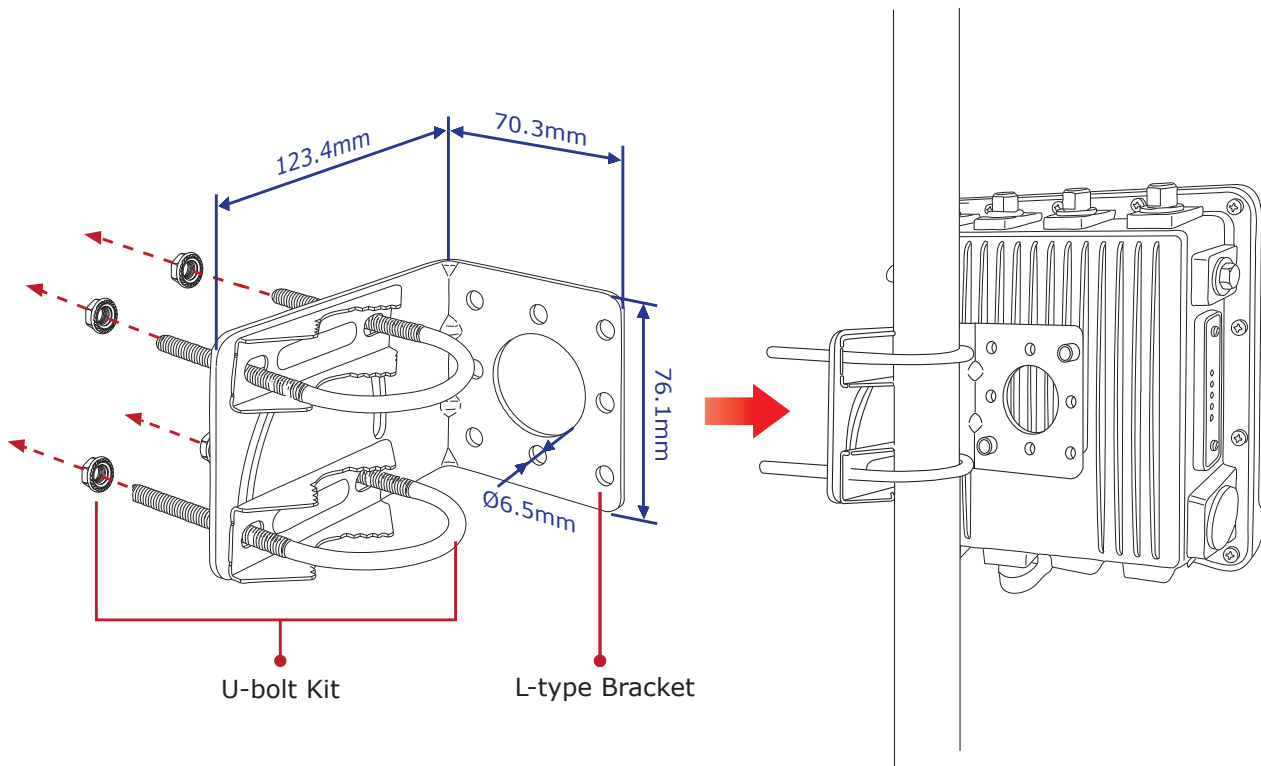
3. Hardware Installation

Step 1: (1) Install the backplane to the back of the AP.

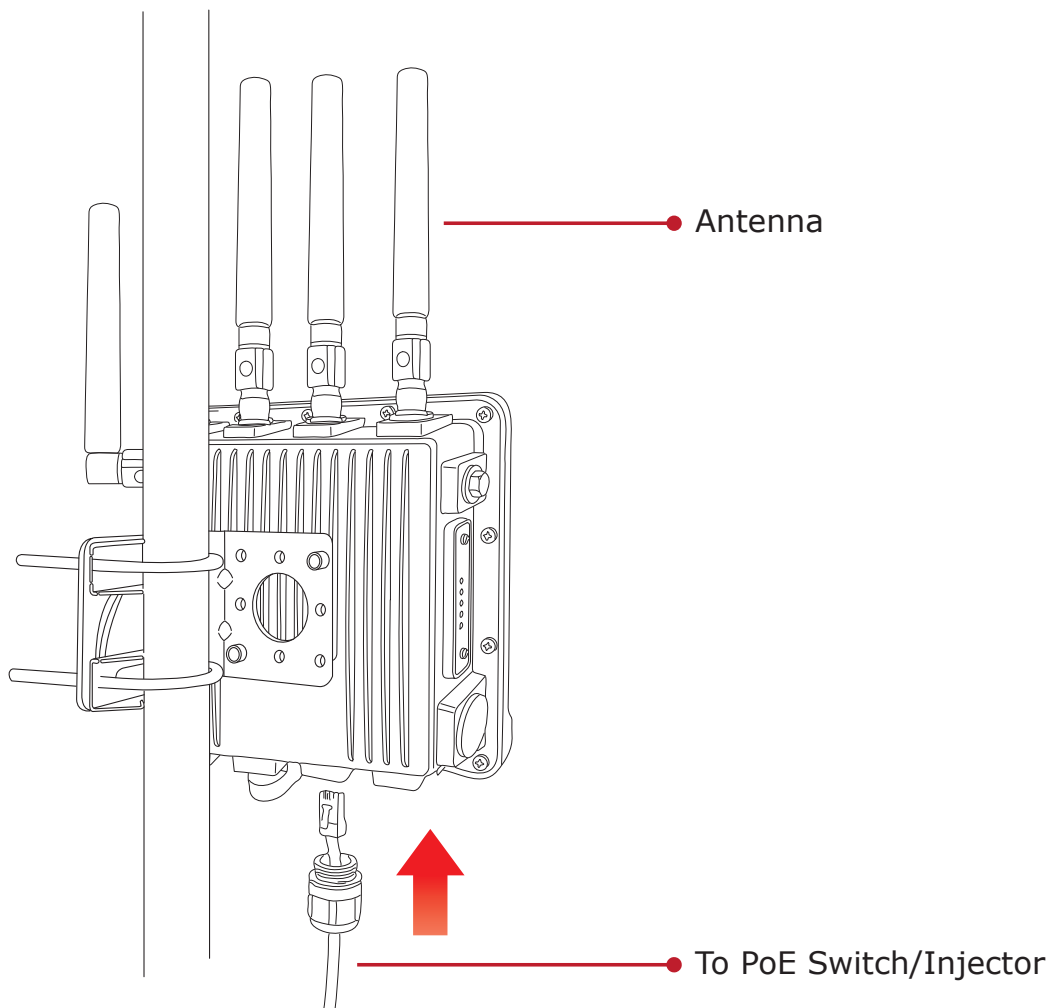
(2) Attach the L-type bracket to the backplane and fasten it.

(3) Place the AP to the pole and fasten it with the U-bolt kit.

The AP can be mounted on the pole with a diameter of up to 2".



- Step 2:** (1) If required, attach the surge arrestors to each antenna connector.
- (2) Attach customer-supplied antennas with N-type (M) connectors to each antenna connector.
- Note: The 90-degree N-type antenna adapter shown in the installation illustration is for reference only, is not included in the package, and is not supplied by PLANET. If required due to installation space or antenna orientation, the adapter must be purchased separately by the user.
- (3) Before connecting cables, please open the waterproof covers of the Ethernet and power ports.
- (4) After installation, ensure all waterproof covers are properly sealed to maintain the IP67 protection.
- (5) Connect the grounding wire to the grounding screw in accordance with local electrical regulations.



4. Connecting the AP (for Windows OS)

As the default setting of connection type of WDAP-5100BE is **DHCP**, your computer's IP address has to be the same network segment as the wireless AP. To find the IP address of the AP, use the utility of "**Smart Discovery Lite**", which can be found on PLANET official website.

1. Launch the utility from your computer after you have downloaded and decompressed it.
2. Select your adapter to connect the AP.
3. Click the "**Refresh**" button.
4. The AP model and its IP address are shown.
5. Check whether the IP address of your adapter and the IP address of the AP are the same.
6. If yes, click "**Connect to Devices**" for the AP setting.
7. If no, go to the next page to set your wired or wireless setting.
8. If there is no DHCP server in the local network, the IP will go back to **192.168.1.253** by default after 60 seconds.

PLANET Smart Discovery Lite

File Option Help

Refresh Exit

	MAC Address	Device Name	Version	DeviceIP	NewPassword	IP Address	NetMask	Gateway	Description
1	A8-F7-E0-00-02-08	GS-2210-24P2S	V100SP102403	192.168.0.100		192.168.0.100	255.255.255.0	192.168.0.254	Web Smart Ethernet Sw
2	7C-27-3C-78-CF-C3	WDAP-5100BE	v1.2102b25112	192.168.1.253		192.168.1.253	255.255.255.0	192.168.1.1	Outdoor 5100BE Wirele

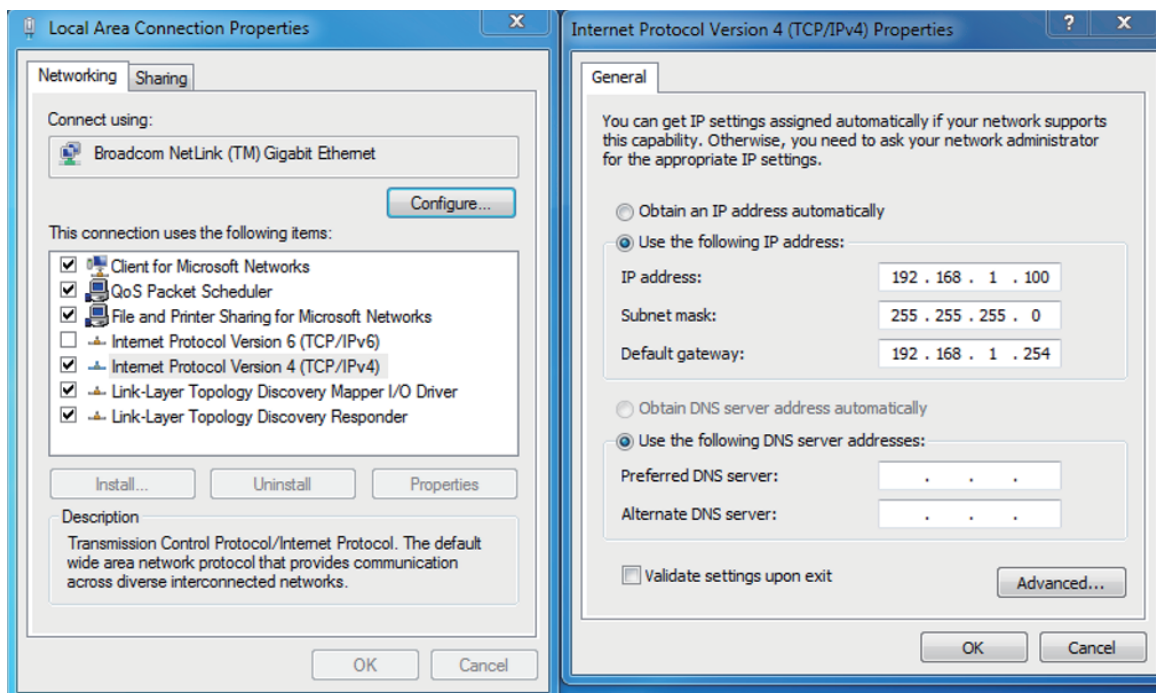
Select Adapter: 192.168.0.47 (00:E0:4C:68:3C:E8) ☐ Control Packet Force Broadcast

Update Device Update Multi Update All Connect to Device

5. Wired Network Configuration (Windows 10 and Windows 11)

A computer with wired Ethernet connection is required for the first-time configuration of the wireless AP.

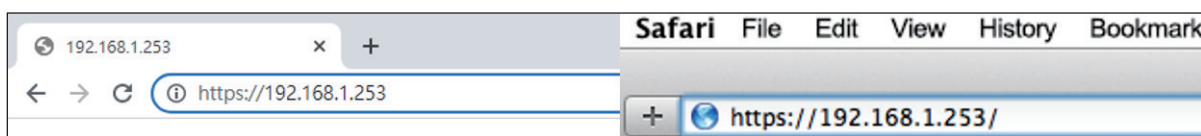
1. Click the **"Start"** button located at the lower-left corner of your computer.
2. Click **"Control Panel"**.
3. Double-click the **"Network and Sharing Center"** icon.
4. Click **"Change adapter settings"**.
5. Double-click **"Local Area Connection"**.
6. Select **"Internet Protocol Version 4 (TCP/IPv4)"** and click **"Properties"**.
7. Select **"Use the following IP address"** and then click the **"OK"** button twice to save the configuration. For example, the default IP address of the WDAP-5100BE is **192.168.1.253** and the router is 192.168.1.254. You may choose from 192.168.1.1 to 192.168.1.252.



6. Entering into the Web Management

Default IP Address: **192.168.1.253** (The default IP address will be **192.168.1.253** if there is no DHCP server in the local network.)
Default Username: **admin**
Default Password: **ap + the last 6 characters of the MAC ID in lowercase**
Default SSID (2.4GHz): **PLANET_2.4G**
Default SSID (5GHz): **PLANET_5G**

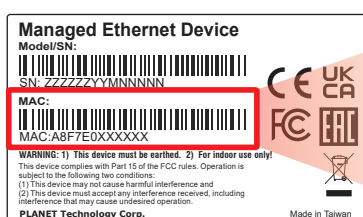
Step 1: The Web management allows you to access and manage the wireless AP easily. Launch the Web browser and enter the default IP address **https://192.168.1.253**.



Step 2: When the following dialog box appears, please enter the default user name **"admin"** and password. Refer to **Step 3** to determine your initial login password.



Step 3: Find the MAC ID on your device label. The default password is "ap" followed by the last six lowercase characters of the MAC ID.



MAC ID: A8F7E0XXXXXX
Default Password: apxxxxxx
("x" means the last 6 digits of the MAC address.
All characters should be in lowercase.)

Step 4: After logging in, you will be prompted to change the initial username and password to a permanent one.

The Password must contain 8 to 31 characters, including uppercase, lowercase, numerals and other symbols. Please note spaces (blanks) are not accepted.

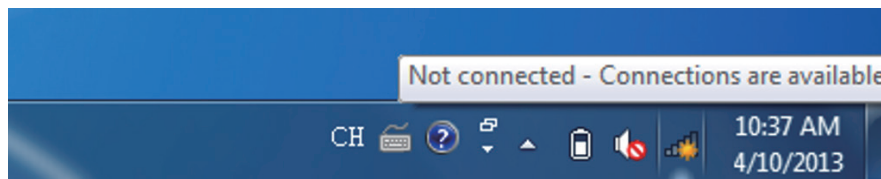
The screenshot shows the configuration wizard for the Planet 5100Mbps Dual Band Wi-Fi 7 Outdoor Wireless AP (WDAP-5100BE). The title bar includes the Planet logo and the device name. The main heading is "STEP 1 - Account Modification". Below this is a progress bar with five steps: 1. Account, 2. Mode, 3. LAN, 4. Wireless, and 5. Completed. Step 1 is currently selected. The form contains three input fields: "Username" with the value "admin", "Password", and "Confirm Password". Below the fields is a note: "The password must contain 8~31 characters, including upper case, lower case, numerals and other symbols". At the bottom right are "Cancel" and "Next" buttons.

Step 5: Please follow the wizard to do the first-time setup and select the mode preferred.

The screenshot shows the configuration wizard for the Planet 5100Mbps Dual Band Wi-Fi 7 Outdoor Wireless AP (WDAP-5100BE). The title bar includes the Planet logo and the device name. The main heading is "STEP 2 - Operation Mode". Below this is a progress bar with five steps: 1. Account, 2. Mode, 3. LAN, 4. Wireless, and 5. Completed. Step 2 is currently selected. The main area displays four mode options: Gateway Mode, WISP Mode, AP Mode (labeled "Current Mode" with a yellow triangle), and Repeater Mode. Each mode is represented by an icon showing a wireless AP and its connection to a network. Below these options is a diagram showing a wireless AP connected to a LAN, with a smartphone and a laptop nearby. A text box explains: "In this mode, the AP wireless interface and cable interface are bridging together. Without NAT, firewall and all network related functions." At the bottom right are "Cancel", "Previous", and "Next" buttons.

7. Wireless Network Connection

Step 1: Right-click on the **network icon** displayed in the system tray.



Step 2: Highlight the wireless network (SSID) to connect and click the **[Connect]** button.



Step 3: Enter the **encryption key** of the WDAP-5100BE if necessary.

You have already finished the configuration of the WDAP-5100BE. Now you can use your smart phone, tablet, laptop, or any other Wi-Fi device to connect with it wirelessly and start surfing the internet.

8. AP Discovery through PLANET NMS Controller (NMS-500/NMS-1000V)

The WDAP-5100BE is the Smart AP series which can be centrally managed by PLANET NMS Controller.

Follow the steps below to discover the managed AP through PLANET NMS controller (NMS-500/NMS-1000V). Please ensure each managed AP uses a different static IP in the same subnet before physically connecting to the managed network.

*** Please regularly check PLANET website for the latest compatible list of the controller/managed APs in each firmware version.

Step 1: Launch the Web browser (Google Chrome is recommended.) and enter the default IP address <https://192.168.1.100:8888> of the NMS controller. Then, enter the default username and password **"admin"** to log on to the system.

* The secure login with SSL (HTTPS) prefix is required.



Step 2: Go to the **"Domain"** page to discover and add the managed AP to the device list. Then, you can go to the **"AP Control-> AP Management"** page to configure profiles to the managed AP without logging on to the AP's web page.

For information about further configuration of Managed AP by using PLANET Smart AP Control, refer to the configuration guide of the NMS controller (NMS-500/NMS-1000V).

9. PLANET CloudNMS App (Android & iOS)

The WDAP-5100BE is the Smart AP series which can be monitored by PLANET CloudNMS app.

Step 1: Enable the Service

Go to the NMS Configuration page of the WDAP-5100BE and enable PLANET CloudNMS Server – Internet feature.

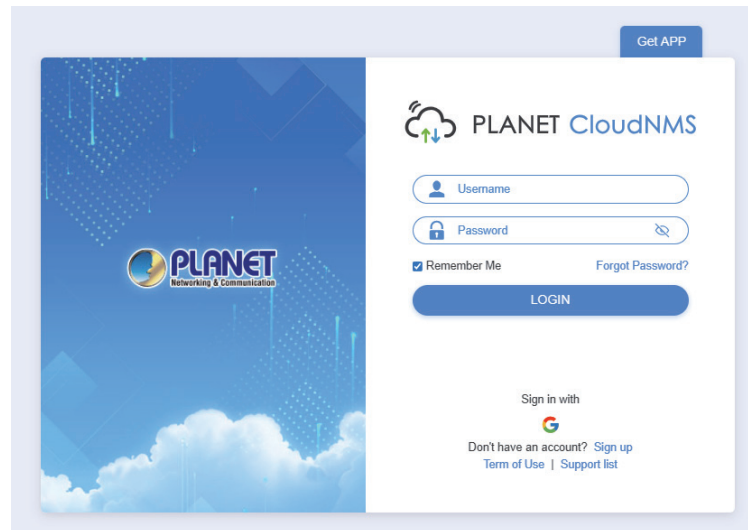
The screenshot shows the 'NMS Configuration' page. On the left is a sidebar with menu items: Operation Mode, Dashboard, System Status, System Service, Statistics, Connection Status, RADIUS, SNMP, NMS (highlighted with a red circle '2'), Remote Syslog, and Event Log. The main content area has a top navigation bar with 'System', 'Network', 'Wireless', and 'Maintenance'. Below this is the 'NMS Configuration' section. It contains a dropdown menu for 'NMS' currently set to 'Disable' (marked with a red circle '1'). Below the dropdown are two buttons: 'Apply Settings' (marked with a red circle '4') and 'Cancel Changes' (marked with a red circle '3').

The screenshot shows the 'NMS Configuration' page after successful configuration. The 'NMS' dropdown is now set to 'PLANET CloudNMS Server - Internet'. Below it, the 'Email' and 'Username' fields are visible. The 'Connection Status' is shown as 'Success'. At the bottom, there are three buttons: 'Apply Settings', 'Cancel Changes', and 'Unbind'. On the right side of the page, there is a QR code and the text: 'Scan this QR code with the CloudNMS App to add the service'.

Step 2: Access the CloudNMS Platform

Open a browser and go to <https://www.cloudnms.planet.com.tw>, or download the PLANET **CloudNMS** App from the App Store or Google Play.

Web:



App:

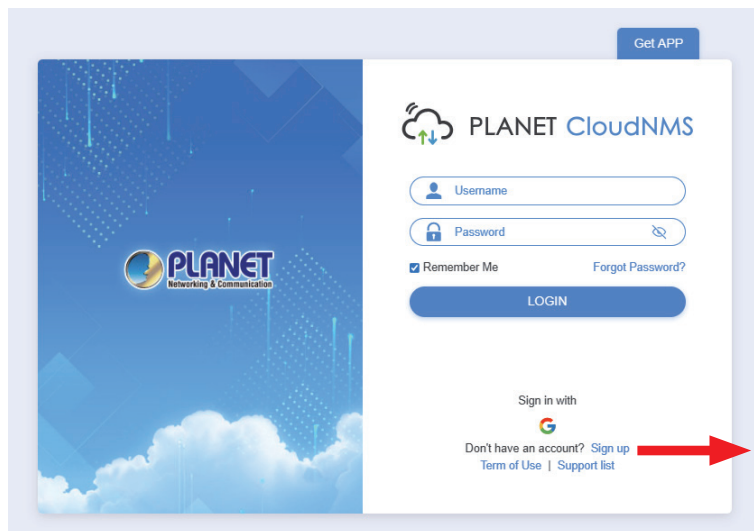


Step 3: Register an Account

Launch the PLANET CloudNMS Platform or App, and log in with your CloudNMS account.

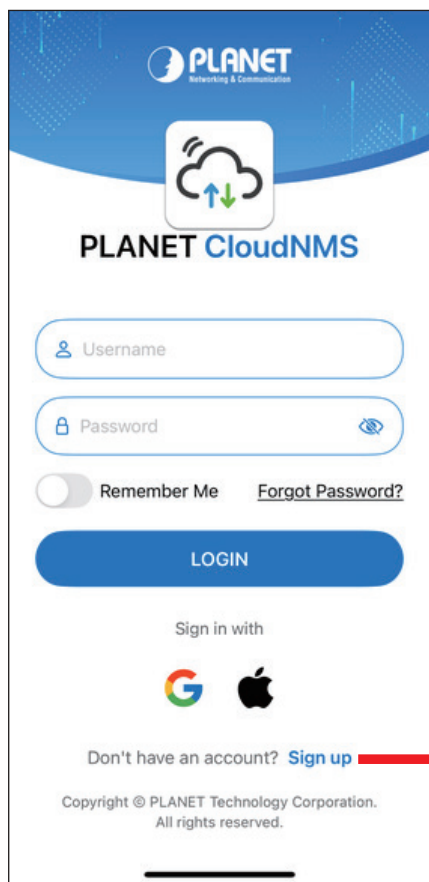
If you don't have an account, register one with your e-mail address first, or use SSO.

Web:



The image shows the web login page for PLANET CloudNMS. On the left is a blue banner with the PLANET logo and the text "Network & Communication". On the right is a white login form. At the top right of the form is a "Get APP" button. The form contains fields for "Username" and "Password", a "Remember Me" checkbox, and a "Forgot Password?" link. Below these is a blue "LOGIN" button. Further down, it says "Sign in with" followed by a Google icon. At the bottom, it says "Don't have an account? Sign up" with a red arrow pointing to the word "Sign up", which is labeled "Register". There are also links for "Term of Use" and "Support list".

App:



The image shows the app login page for PLANET CloudNMS. At the top is the PLANET logo. Below it is a cloud icon with up and down arrows. The text "PLANET CloudNMS" is displayed. There are input fields for "Username" and "Password", a "Remember Me" toggle switch, and a "Forgot Password?" link. Below these is a blue "LOGIN" button. Further down, it says "Sign in with" followed by Google and Apple icons. At the bottom, it says "Don't have an account? Sign up" with a red arrow pointing to the word "Sign up", which is labeled "Register". At the very bottom, there is a copyright notice: "Copyright © PLANET Technology Corporation. All rights reserved."

Step 4: Bind the Device

Via Web:

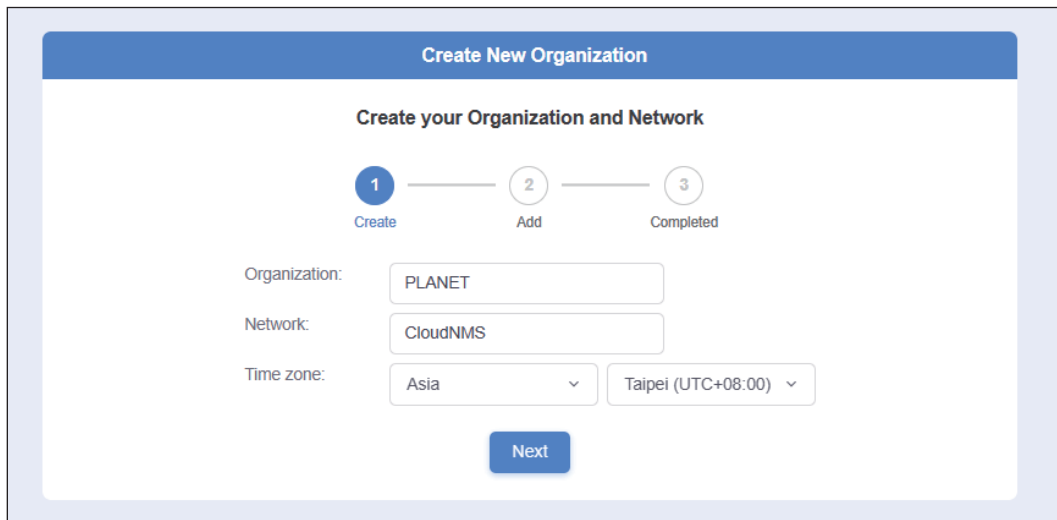
- Log in to the PLANET CloudNMS Platform.
- Create an Organization and a Network for the device.
- Enter the required device information and complete the setup wizard.

Via App:

- Launch the PLANET CloudNMS App and sign in with your CloudNMS account.
- Create an Organization and a Network for the device, then go to the Add Device process.
- Enter the required device information or Scan the QR code of the device, and complete the setup wizard.

Web:

1. Create an Organization and a Network



The screenshot shows a web interface titled "Create New Organization". Below the title is a subtitle "Create your Organization and Network". A progress bar with three steps is displayed: "1 Create" (active), "2 Add", and "3 Completed". Below the progress bar, there are three input fields: "Organization:" with the value "PLANET", "Network:" with the value "CloudNMS", and "Time zone:" with a dropdown menu showing "Asia" and "Taipei (UTC+08:00)". A blue "Next" button is located at the bottom of the form.

2. Enter the required device information

Create New Organization

Add your device(s) to PLANET CloudNMS

1
Create

2
Add

3
Completed

+

Add

1 Devices

Download Import Template

Import

MAC Address	Serial Number	Name	Model
a8:17:e0:... Format: XX:XX:XX:XX:XX:XX	... Enter a 14-character serial number	skip Enter the device name	...

☐ Auto-skip invalid devices

Back

Next

3. Finish

Create New Organization

New Organization Information

1
Create

2
Add

3
Completed

Organization Information

OrganizationPLANET

NetworkCloudNMS

Time ZoneAsia/Taipei

Devices

0Switch(es)

1Access point(s)

0Router(s)

Download Import History

Finish Setup and Go to Dashboard

App:

1. Create an Organization and a Network

< Back **Create Organization**

Step 1 / 3 : Create New Organization
Create your Organization and Network

Organization

PLANET

Network

CloudNMS

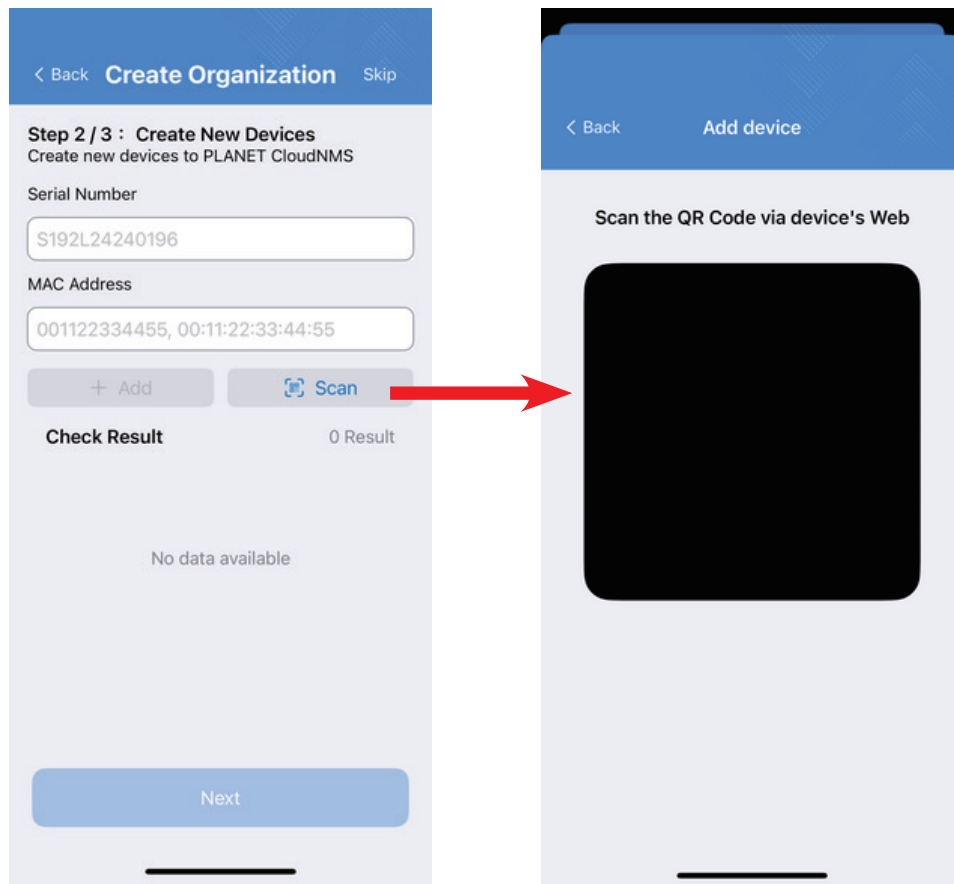
Time Zone

📍 Taiwan >

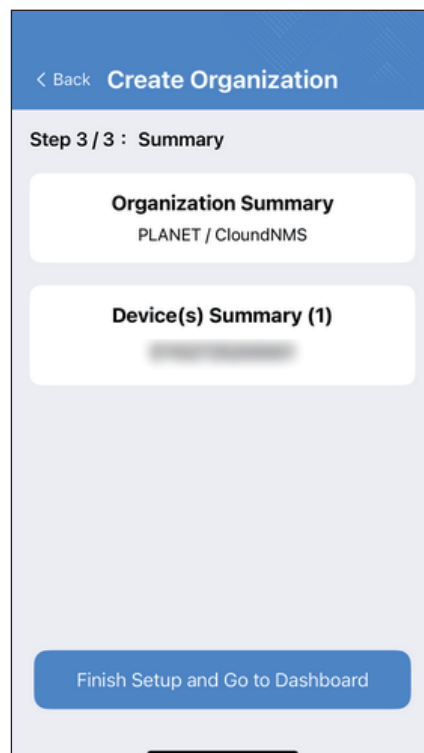
📍 Asia/Taipei >

Next

2. Enter the required device information or Scan QR code

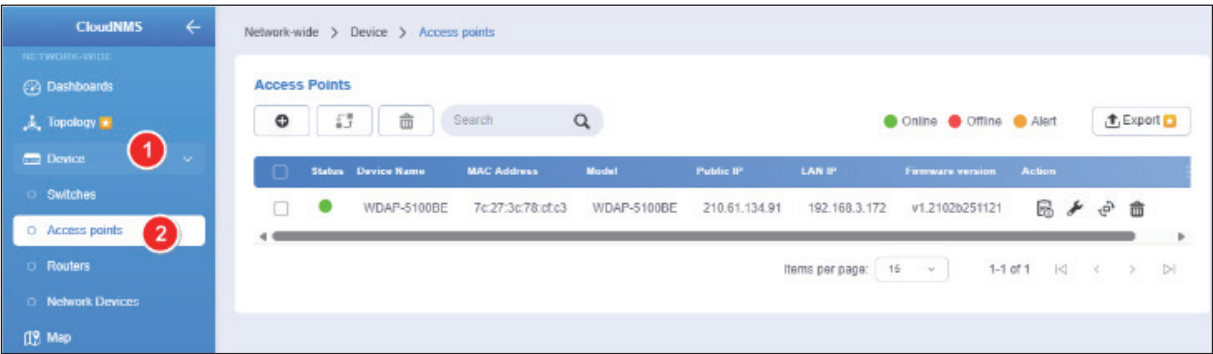


3. Finish

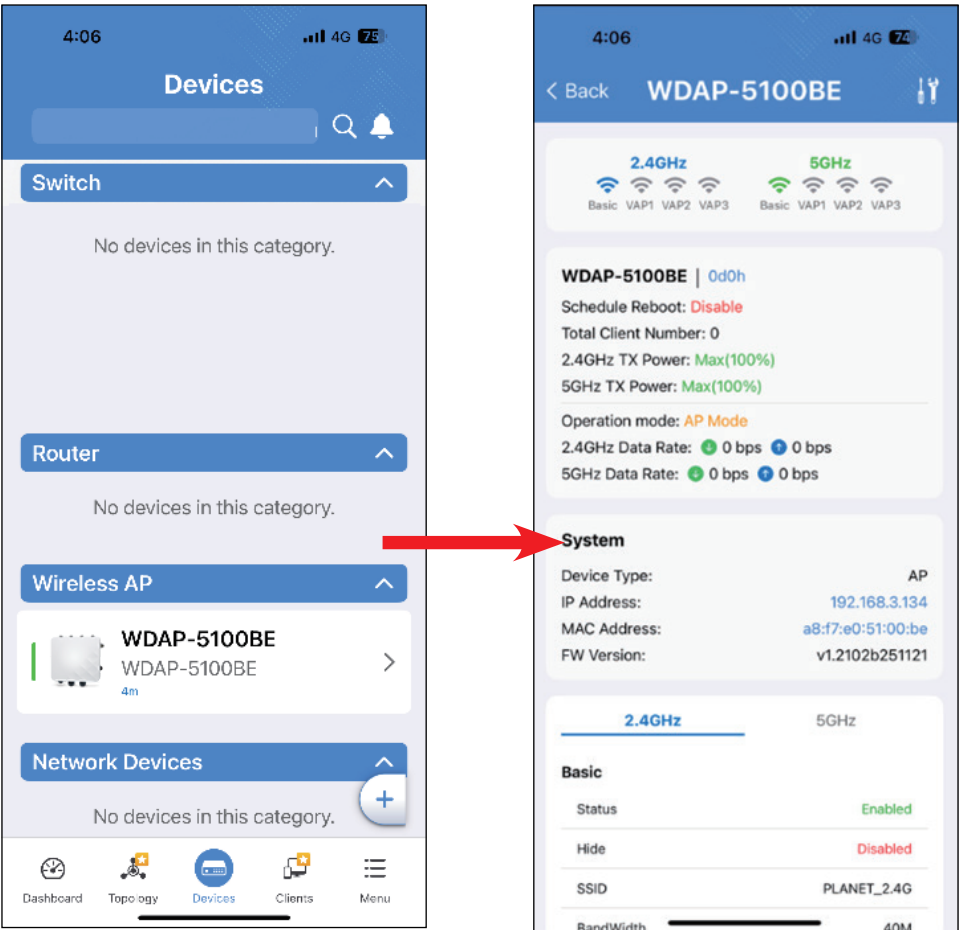


Step 5: Finish

Web:



App:



Further Information:

The above steps introduce the simple installations and configurations of the device. For further configurations, please refer to the user manual, which can be downloaded from the website.

WDAP-5100BE

<https://www.planet.com.tw/en/support/download.php?&method=keyword&keyword=WDAP-5100BE&view=3#list>



PLANET Network Management Solution (NMS):

<https://www.planet.com.tw/en/products/network-management>



If you have further questions, please contact the local dealer or distributor where you purchased this product.

EU Representative

PLANET Technology Europe B.V.

Address: Posthoornstraat 11, 3011 WD Rotterdam, NL

Email: eu_rep@planet.com.tw

URL: www.planet.com.tw