



QUICK INSTALLATION GUIDE

WiFi 5/6/7 Indoor/Outdoor Access Point

Disclaimer: All illustrations and descriptions contained in this manual are provided for reference purposes only. The manufacturer reserves the right to modify product appearance. Furthermore, please be advised that certain features, functionalities, or specifications detailed in this document may be limited to select models or specific hardware configurations. The physical product purchased shall serve as the definitive standard.



**Stable
Signal**

**MU-MIMO
Function**

**Powered by
PoE/DC**

**High Speed
Connection**

**Scheduling
Reboot**

Product Overview

Nivica Access Point series delivers stable and high-speed Wi-Fi connectivity for small and medium business networks. Covering Wi-Fi 5, 6, and 7 models, it provides reliable wireless access for multiple users and devices.

Easy to deploy and operate, supporting PoE and DC Power input for flexible installation, designed with watchdog function, web-management, it is ideal for offices, retail, and commercial spaces, combining performance, flexibility, and cost-effectiveness.

Model list

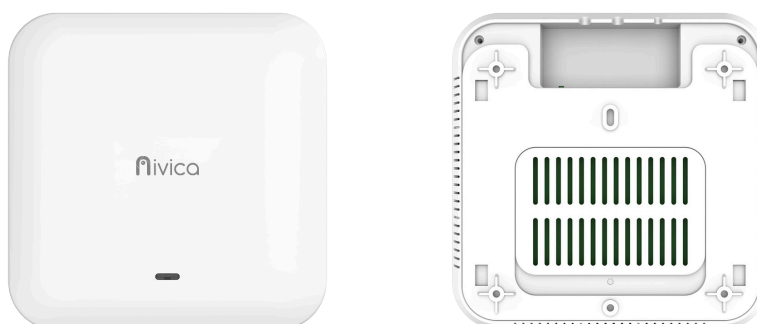
Model Name	NV-AP7	NV-AP6-O
Picture		
Wi-Fi Standard	Dual-band; IEEE 802.11be (Wi-Fi 7)	Dual-band; IEEE 802.11ax (Wi-Fi 6)
Frequency Band	2.4GHz: 2.4GHz ~ 2.484GHz 5GHz: 5.150GHz ~ 5.850GHz	2.4GHz: 2.4GHz ~ 2.484GHz 5.8GHz: 5.150GHz ~ 5.825GHz
Antenna	Built-in Omnidirectional Antennas 2.4GHz: 2×4dBi 5GHz: 2×4dBi	4 External 4dBi omni-directional antennas (4×4 MIMO)
Network Interface	1×10/100/1000/2500 Mbps WAN, 48V PoE in; 1×10/100/1000Mbps LAN	1×10/100/1000/2500 Mbps WAN, 48V PoE in; 1×10/100/1000Mbps LAN
Power Supply	48V PoE / 12V 2A DC	48V PoE (802.3at)
SSID	Multiple SSIDs supported; Hide/Broadcast; Unicode characters supported;	Multiple SSID functions (2.4GHz: 4; 5.8GHz: 4); SSID hidden support;
Wireless Security	OPEN, WPA/WPA2-PSK (TKIP/AES), WPA3-PSK (AES); MAC Filtering;	OPEN, WPA/WPA2-PSK (TKIP/AES), WPA3-PSK (AES); MAC Filtering;
Maximum Wireless Clients	128 users	128 users
Management & Stability	Watchdog supported, Smart Management	Hardware controller managed, Portal/AC controller Managed, Cloud access support
Operating Modes	AP / Fat / Thin / Gateway / Relay	Access Point (AP) mode / Gateway mode
Status LED	(Front Panel — ● Red/ ● Green/ ● Blue): Power On: Red ON → System Start → Green ON & Red OFF→ Wi-Fi Active Thin AP — AC disconnected: Red ON & Green OFF & Blue ON AP Locator: Blue Flashes (1 time/second), Red & Green OFF	PWR, LAN/WAN, LAN, WLAN*4
One-Key Reset	Press & Hold 6–10s → Factory Reset	Press & Hold 6–10s → Factory Reset
Operating TEMP/ Humidity	-10°C ~ 55°C; 5%~100% RH (non-condensing)	-20°C ~ 55°C; 10%~100% RH (non-condensing)

Interface Overview

Description	LED Status
Power on, System boots successfully	Red● ON → System Start→ Green● ON & Red● OFF
Wi-Fi boots successfully /Normal operation	Blue● ON
Thin AP mode, AC disconnected in Toplogy	Red● ON & Green● OFF & Blue● ON
AP Locator	Blue● Flashes (1 time/second), Red● & Green● OFF

Note: The number of LEDs may vary by ceiling-mounted AP model. Please refer to the actual product.

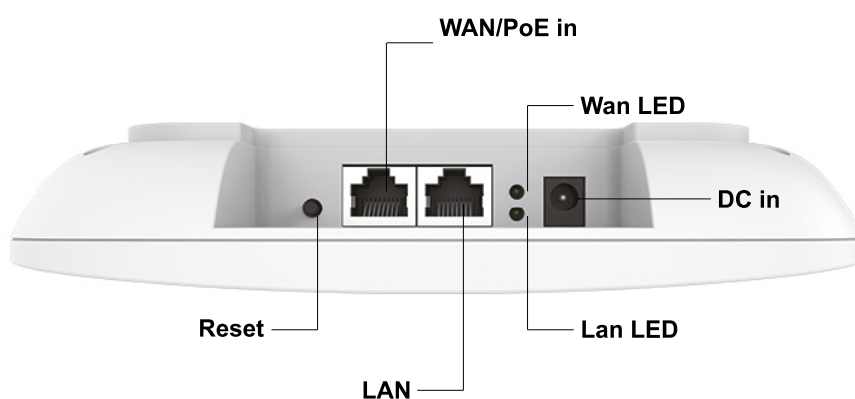
Example Front & Back (Indoor model)



Example Front & Back (Outdoor model)



Example Rear

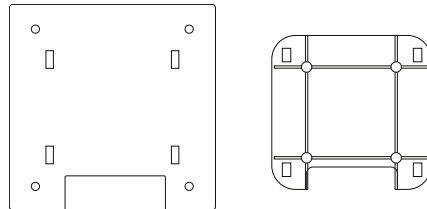


Ports	Description
Reset	Press and hold for 10 seconds while powered on to restore factory settings. The device will reboot automatically.
LED Indicators	Both WAN and LAN, the LED indicator lights up when an Ethernet cable is connected. Yellow flashes , indicating Normal operation, Yellow OFF, connection fails
WAN (for PoE Powered Method)	Connects to the internet. The WAN port can be connected to an ADSL modem or community broadband. In AP or Repeater mode, the WAN port functions as a LAN port.
LAN	LAN port for connecting wired network devices.
DC	Power input port. Specifications vary by model.

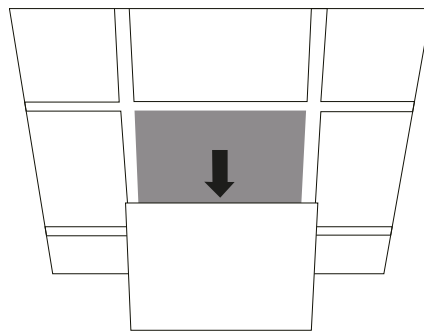
Hardware Installation

Ceiling Mounting (On a Tile/Directly) (Indoor model)

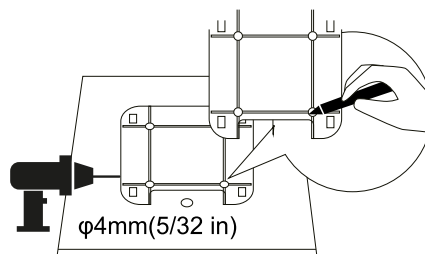
Bracket



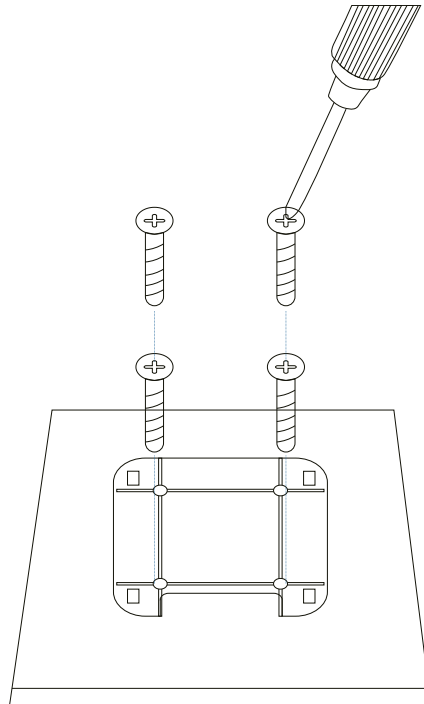
Remove a ceiling tile.



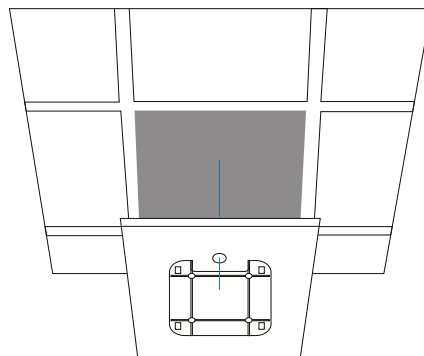
Position the mounting bracket at the center of the ceiling tile. Mark the locations for the screw holes and the Ethernet cable hole, then drill holes and put the plastic expansion plug accordingly.



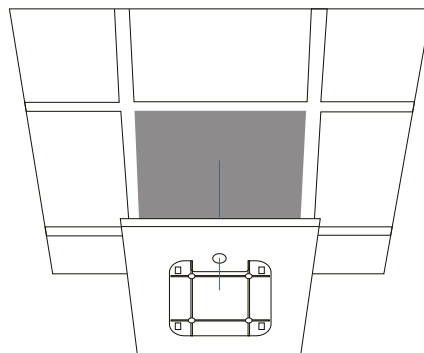
Attach the mounting bracket to the ceiling tile using screws.



Feed the Ethernet cable through the hole and replace the ceiling tile.

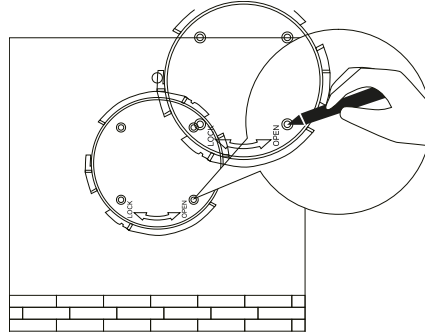


Connect the Ethernet cable to the AP, attach it to the mounting bracket, and rotate to lock or snap into place.

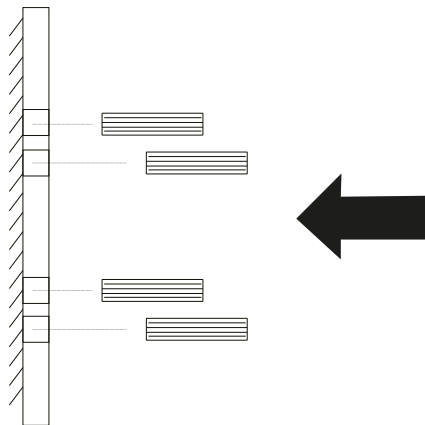


Wall Mounting (Indoor model)

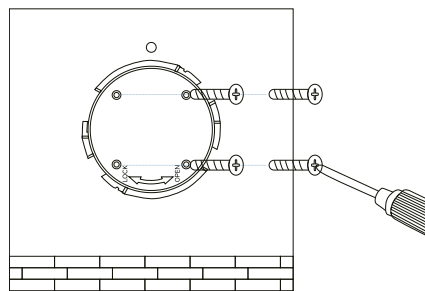
If the Ethernet cable comes through the wall, place the mounting bracket below the cable hole. Mark and drill the screw holes.



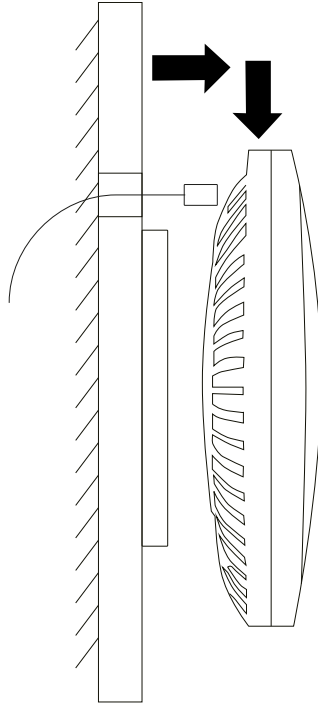
Insert the plastic expansion plug into the holes.



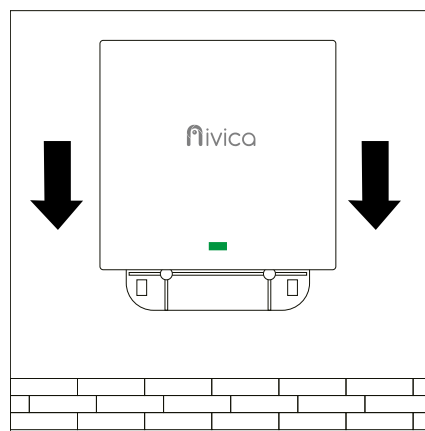
Attach the mounting bracket to the wall using screws, ensuring the bracket's shoulders face outward.



Connect the Ethernet cable to the AP.



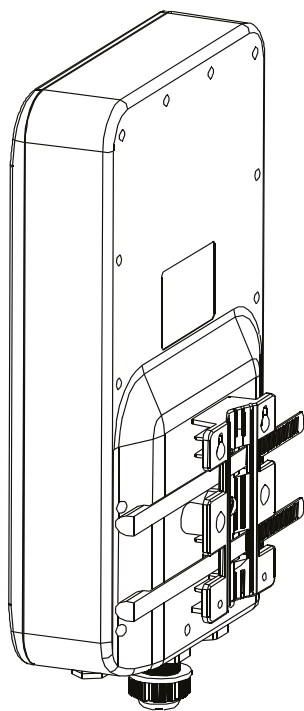
Mount the AP on the bracket and rotate to lock or snap into place.



Installing the AP to a pole (Outdoor model)

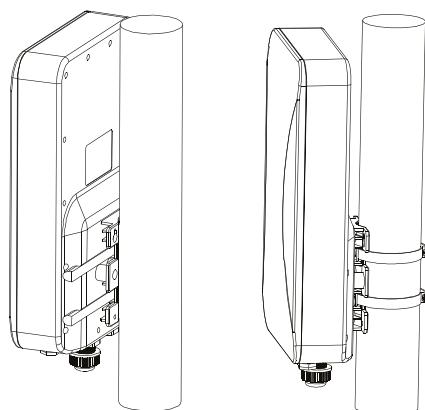
Installing hose clamps

Threading the Hose clamps through the mounting holes in bracket separately. The direction of the screw head on the hose clamp should be determined before you thread.



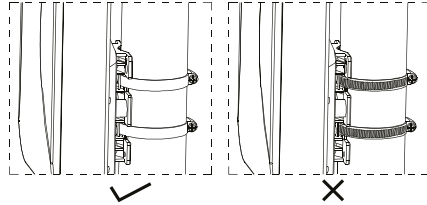
Mounting to a pole

Mounting the AP to a suitable pole(Ø59-Ø82mm).



Caution:

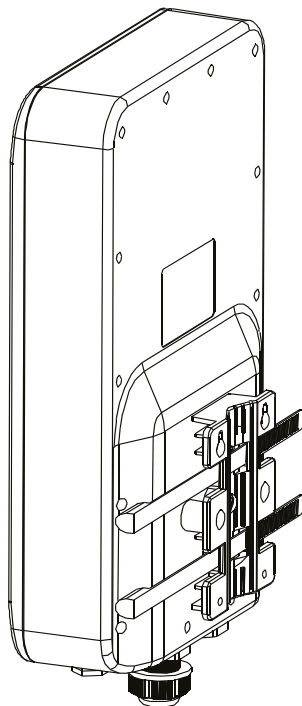
- Use caution to prevent hand injury!
- For safety, the stencil area in steel belt of the hose clamps should avoid overlapping the edge of mounting holes on bracket.



Wall Mounting (Outdoor model)

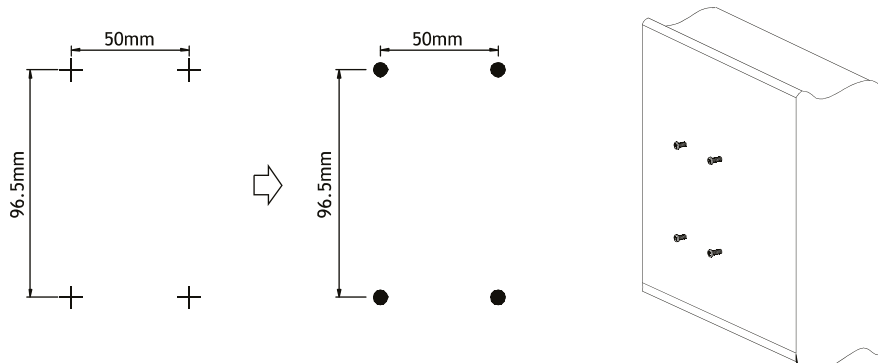
Installing the screw on the wall

Draw four center marks on the wall where is planned to mount the outdoor AP. Then drill four holes on the wall. Insert four wall anchors into the holes on the wall separately. And then Insert four screws into the wall anchors with 5mm length left remaining.



Hanging the AP on the wall

Hang the AP with the bracket on the screw.

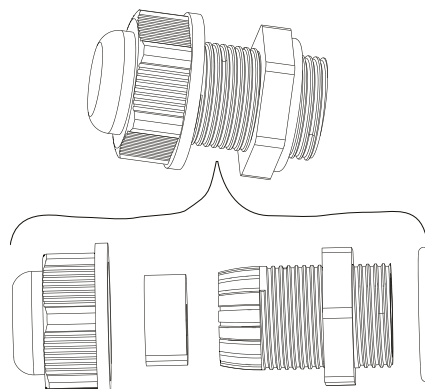


Connecting the Ethernet Cable (Outdoor model)

To connect the Ethernet cable to the AP, perform the following steps using the Cable gland that ship with your AP.

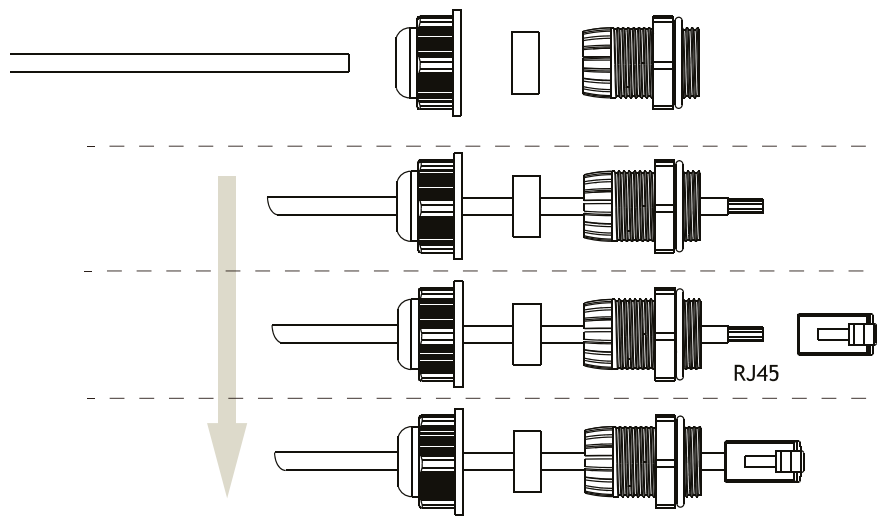
The Cable Gland Composition

Remove the Cable gland from AP before use. The Cable gland is composed of 4 elements, which are Sealing nut, Seals, Gland body and Seal-ring.



Crimping the Ethernet cable

The following figure 11 shows the process of crimping an Ethernet.



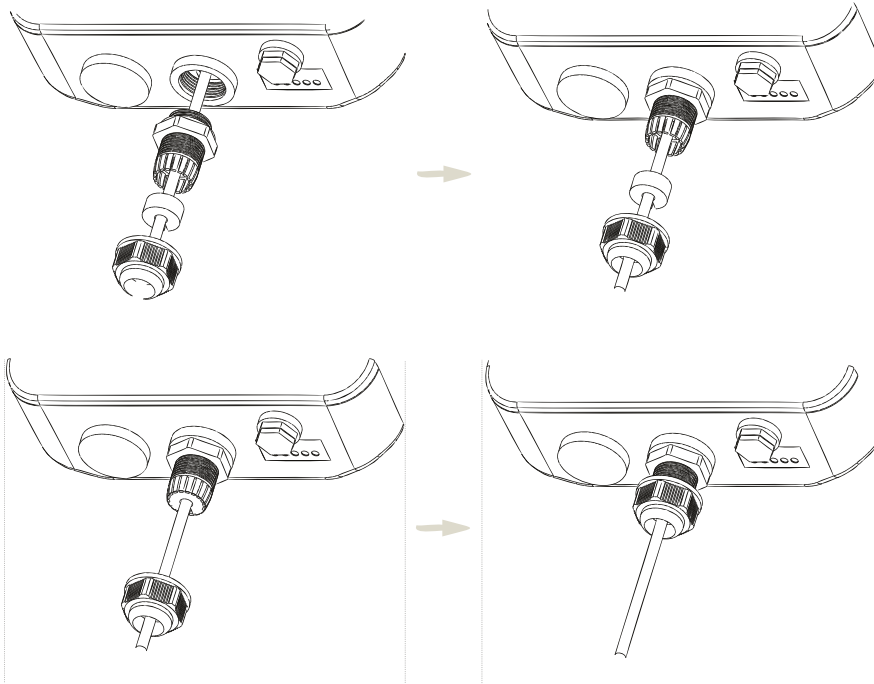
Caution:

Do not peel the cover of the Ethernet cable or attach the RJ45 connector to the cable before sliding the Cable gland over the cable.

Failure to use the included Ethernet cable gland can lead to product issues.

Connecting the cable

Connect the outdoor Ethernet cable, which will be powered up and was crimped, to Ethernet Port. And then, screw the Gland body with Seal-ring onto the Ethernet port with proper wrench. Move the Seals towards the Gland body until it locates in the clip of the Gland body. Screw the Sealing nut onto the Gland body.



Caution:

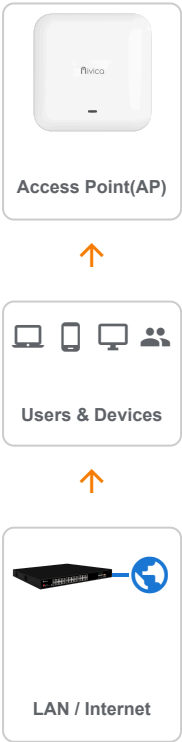
Do not screw the Sealing nut onto the Gland body before connecting the RJ45 connector to the Ethernet port.

Must use a proper wrench to tighten the Gland body.

Connection Methods

Standalone / AP Mode

The AP operates independently, managing network traffic on its own (Small network).



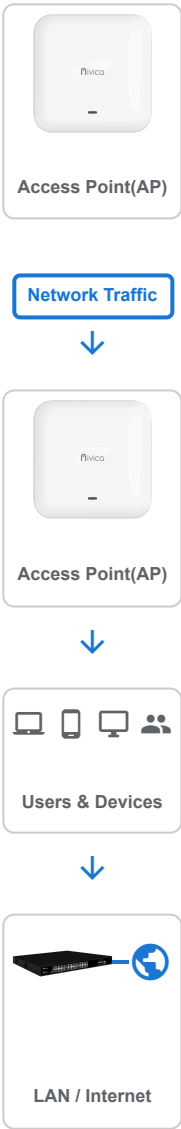
AC Controller Mode

The AP is managed by a wireless controller, which handles configuration, traffic, and network policies centrally.



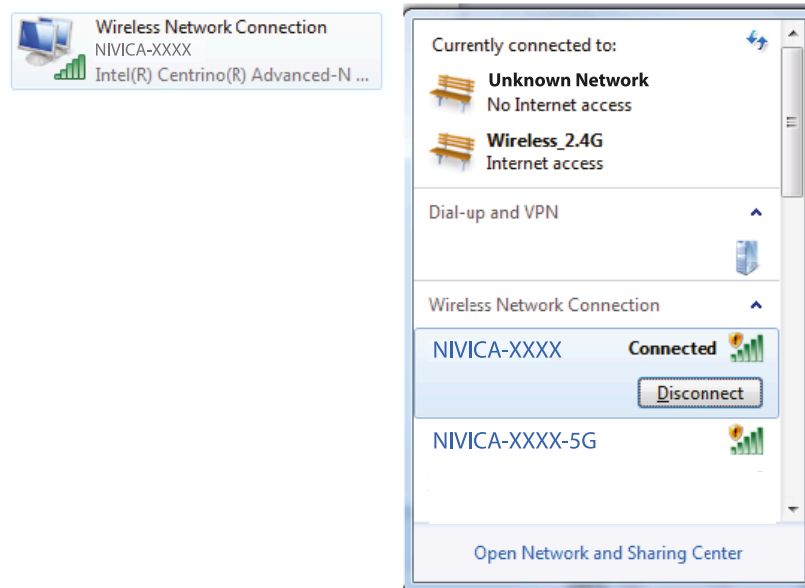
Bypass Mode

The AP allows network traffic to pass through without processing, ensuring connectivity during power failure or device shutdown.



Web Configuration

Wireless Connection



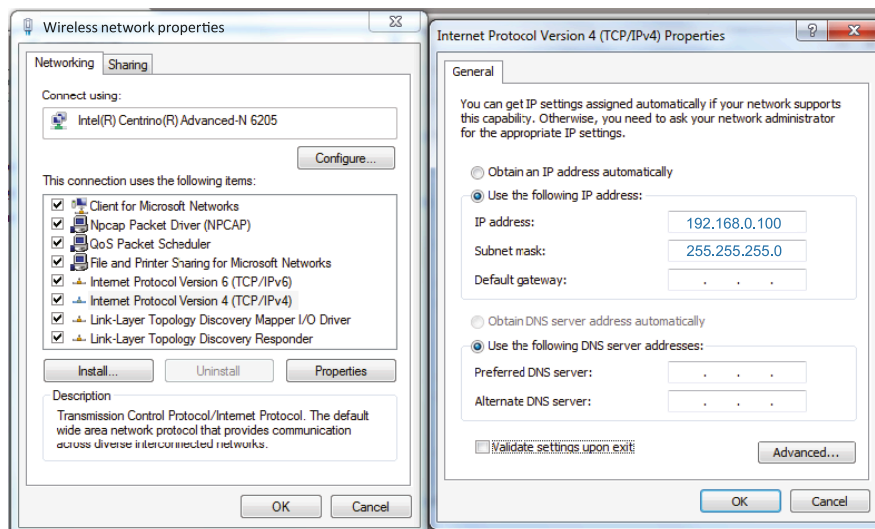
1. Connect to the Device Wirelessly
2. After setting the IP address, open the wireless network list on your PC.
3. Locate and double-click on "Wireless Network Connection".
4. From the available SSIDs, select **Wireless_MLO_XXXX**
5. (Replace XXXX with the last four digits of your device's MAC Address, check the label).
6. Enter the default password: **66666666**
7. Wait for the connection to establish.

Configure Your Wireless Connection

1. Open the TCP/IP settings of your wireless network adapter.
2. Set the IP address to: **192.168.0.100**
3. Set the Subnet Mask to: **255.255.255.0**

Note: This ensures your PC and the device are on the same IP subnet, allowing proper communication.

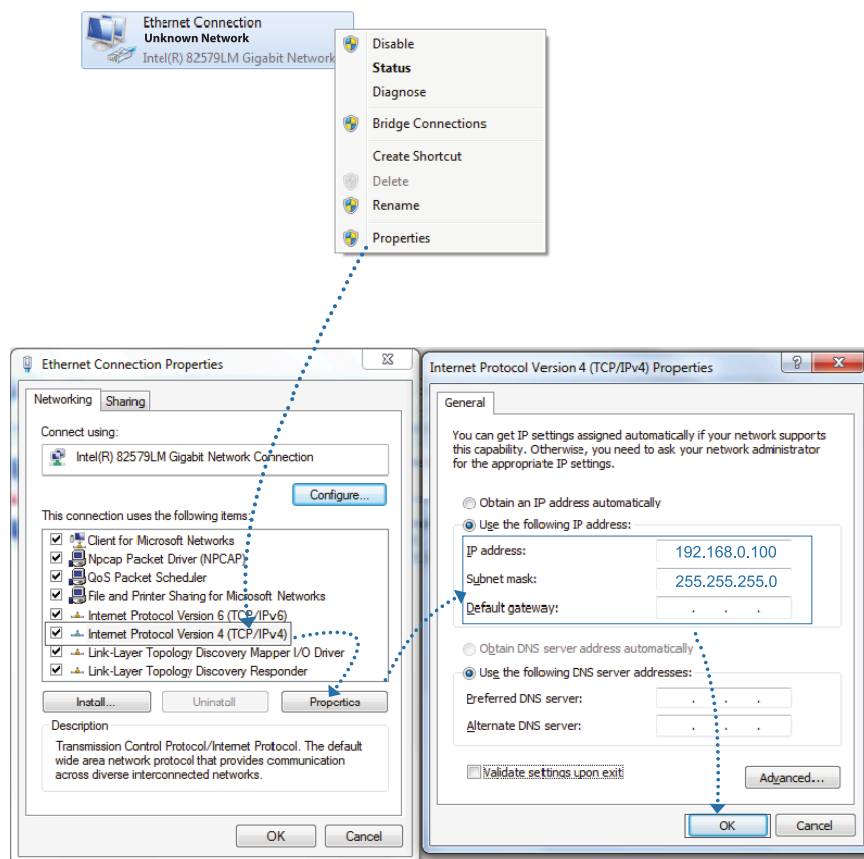
4. Refer to the diagram for visual guidance:



Wired Connection

1. Configure a Wired Connection.
2. Connect your PC to the device using an Ethernet cable.
3. Open the TCP/IP settings of your wired network adapter.
4. Set the IP Address: **192.168.0.100**
5. Set the Subnet Mask: **255.255.255.0**

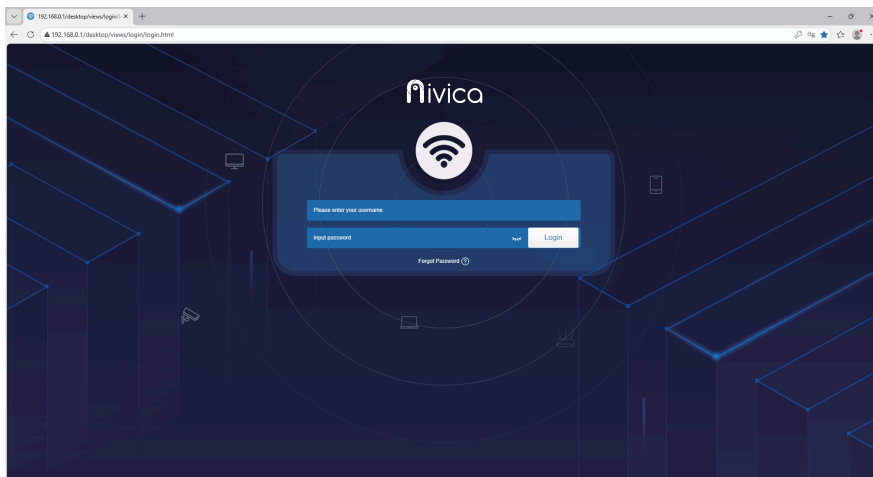
Note: Note: This ensures that your PC is on the same IP subnet as the AP, allowing proper communication.



Configure AP Mode via Web Browser

Step 1: Access the Device

1. Open Internet Explorer (or another compatible browser) and visit: **192.168.0.1**
2. The login screen will appear as shown in the figure below.
3. Enter the default credentials:
Username: **admin**
Password: **admin**
4. After logging in, the setup page will be displayed.



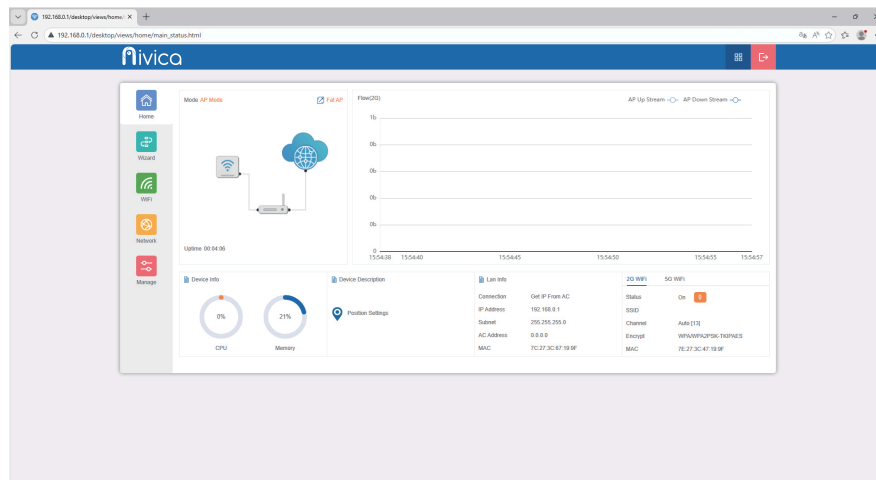
Step 2: Switch AP Mode (if needed)

By default, the page displays Fat AP mode. To switch to Fit AP mode, click the button in the top-right corner.



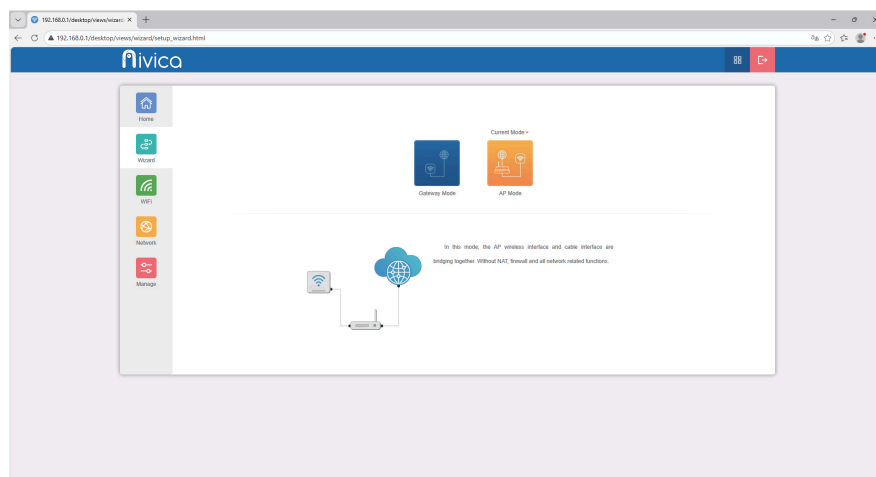
Step 3: Fat AP Mode Home Page

The home page for Fat AP mode is shown below.



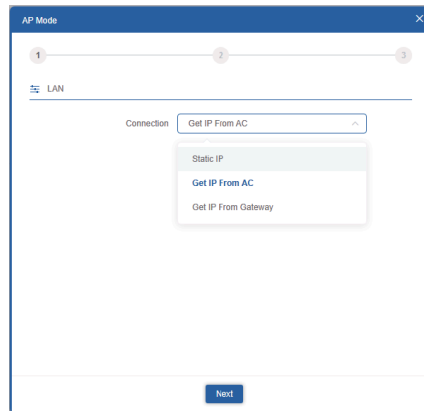
Step 4: Setup Wizard

In the main menu, select AP mode as the working mode.



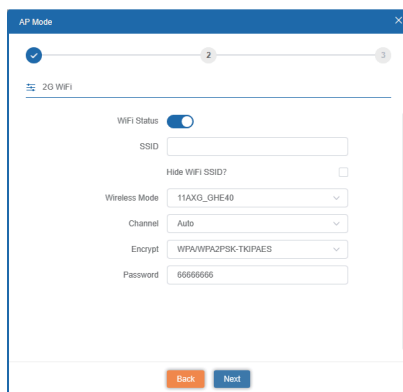
Step 5: AP Setup

On the AP setup page, select LAN as the connection Type, then click Next.

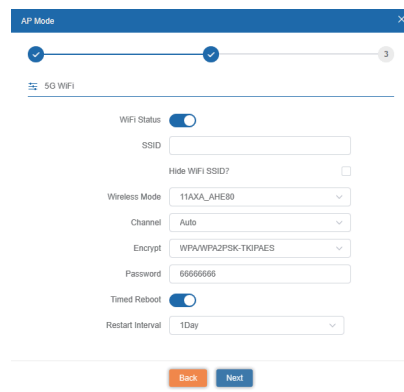


Step 6: WiFi Setup

Configure the WiFi settings as shown in the figure below.



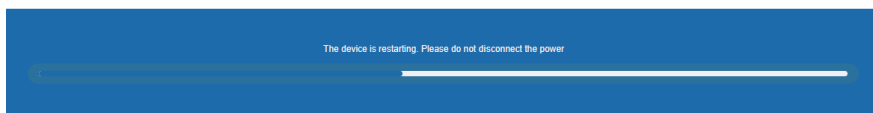
2G WiFi as example



5G WiFi as example

Step 7: Complete Setup

After completing the steps above, the setup process is finished. Wait for the AP to complete the restart.



Internet Setup & Connection Status

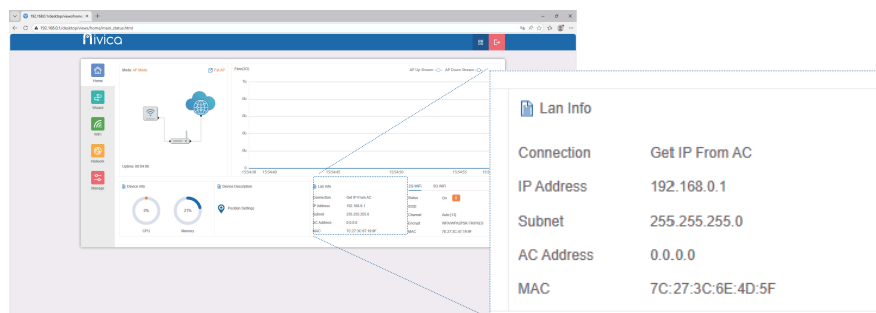
IP Settings and Status Check

1. IP Settings (Automatic)

After completing the AP configuration, the AP will restart and apply the settings. Set your computer's IP address to obtain automatically (DHCP). Your computer and other wireless devices can now connect to the wireless network.

2. View Status (Manual/Fixed IP)

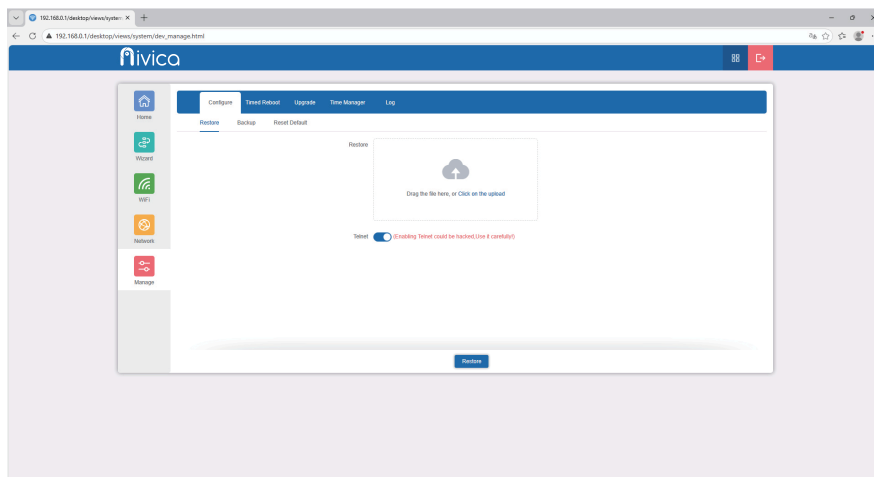
If you prefer a fixed IP address for your computer, configure it as **192.168.0.100**. Access the wireless AP via a browser and log in. You can now view the device's current status, as shown in the status window.



Device Management Functions

Through the device management menu, users can:

- Backup and restore settings
- Reboot or reset the device to factory defaults
- Change the web login password
- Upgrade firmware
- Synchronize system time
- View system logs and statistics
- Access other advanced settings



Technical Support

If you need technical assistance or additional information about Nivica, please visit our website or contact our support team.



Website

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