# VigorAP 903
# 802.11ac Access Point
# Quick Start Guide

**Version: 2.1**

**Firmware Version: V1.4.16**

**(For future update, please visit DrayTek web site)**

**Date: September 12, 2024**

# Intellectual Property Rights (IPR) Information

| | |
|---|---|
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# Safety Instructions and Approval

| | |
|---|---|
| **Safety Instructions** | ● Read the installation guide thoroughly before you set up the device.<br>● The device is a complicated electronic unit that may be repaired only be authorized and qualified personnel. Do not try to open or repair the device yourself.<br>● Do not place the device in a damp or humid place, e.g. a bathroom.<br>● Do not stack the devices.<br>● The device should be used in a sheltered area, within a temperature range of 0 to +45 Celsius.<br>● Do not expose the device to direct sunlight or other heat sources. The housing and electronic components may be damaged by direct sunlight or heat sources.<br>● Do not deploy the cable for LAN connection outdoor to prevent electronic shock hazards.<br>● Do not power off the device when saving configurations or firmware upgrades. It may damage the data in a flash. Please disconnect the Internet connection on the device before powering it off when a TR-069/ACS server manages the device.<br>● Keep the package out of reach of children.<br>● When you want to dispose of the device, please follow local regulations on conservation of the environment. |
| **Warranty** | We warrant to the original end user (purchaser) that the device will be free from any defects in workmanship or materials for a period of two (2) years from the date of purchase from the dealer. Please keep your purchase receipt in a safe place as it serves as proof of date of purchase. During the warranty period, and upon proof of purchase, should the product have indications of failure due to faulty workmanship and/or materials, we will, at our discretion, repair or replace the defective products or components, without charge for either parts or labor, to whatever extent we deem necessary tore-store the product to proper operating condition. Any replacement will consist of a new or re-manufactured functionally equivalent product of equal value, and will be offered solely at our discretion. This warranty will not apply if the product is modified, misused, tampered with, damaged by an act of God, or subjected to abnormal working conditions. The warranty does not cover the bundled or licensed software of other vendors. Defects which do not significantly affect the usability of the product will not be covered by the warranty. We reserve the right to revise the manual and online documentation and to make changes from time to time in the contents hereof without obligation to notify any person of such revision or changes. |

# C€ Declaration of Conformity

Hereby, DrayTek Corporation declares that the equipment type VigorAP 903 is in compliance with Radio Equipment Directive 2014/53/EU, Low Voltage Directive 2014/35/EU and RoHS 2011/65/EU.
The full text of the EU declaration of conformity is available at the following internet address:
https://fw.draytek.com.tw/VigorAP%20903/Document/CE/

Manufacturer:         DrayTek Corp.
Address:            No. 26, Fushing Rd, Hukou, Hsinchu Industrial Park, Hsinchu 303, Taiwan
Product:            VigorAP 903
Frequency Information for Europe area:

| 2.4GHz WLAN | 2412MHz - 2472 MHz, max. TX power: 19.98dBm   *1 |
|---|---|
| 5GHz WLAN | 5160MHz - 5340 MHz, max. TX power: 22 dBm      *2<br>5480MHz - 5720 MHz, max. TX power: 27.13 dBm |
| ⚠ | Requirements in AT/BE/BG/CZ/DK/EE/FR/DE/IS/IE/IT/EL/ES/ CY/LV/LI/ LT/LU/HU/MT/NL/NO/PL/PT/RO/SI/SK/TR/FI/SE/CH/HR/UK(NI).<br>5150MHz~5350MHz is for indoor use only. |

(*1: for 2.4GHz WLAN model; *2: for 5GHz WLAN model)

This product is designed for 2.4GHz and 5GHz WLAN network throughout the EC region.

# UKCA Declaration of Conformity

Hereby, DrayTek Corporation declares that the equipment type VigorAP 1062C is in compliance with the Radio Equipment Regulations 2017 (SI 2017 No.1206) , The Electrical Equipment (Safety) Regulations 2016 (SI 2016 No.1101), and The Restriction of the Use of Certain Hazardous Substances in Electrical and Electronic Equipment Regulations 2012 (SI 2012 No. 3032).
The full text of the UKCA Declaration of Conformity is available at the following internet address:
https://fw.draytek.com.tw/VigorAP%20903/Document/CE/

Manufacturer:         DrayTek Corp.
Address:            No. 26, Fushing Rd., Hukou, Hsinchu Industrial Park, Hsinchu 303, Taiwan
Product:            VigorAP 903
Importer:           CMS Distribution Ltd: Bohola Road, Kiltimagh, Co Mayo, Ireland
Frequency Information for UK & Ireland:

| 2.4GHz WLAN | 2412MHz - 2472 MHz, max. TX power: 19.98dBm   *1 |
|---|---|
| 5GHz WLAN | 5160MHz - 5340 MHz, max. TX power: 22 dBm      *2<br>5480MHz - 5720 MHz, max. TX power: 27.13 dBm |
| ⚠ | Requirements in UK. 5150MHz~5350MHz is for indoor use only. |

(*1: for 2.4GHz WLAN model; *2: for 5GHz WLAN model)
The unit should be kept at least 20 cm away from human body. Designed for use in the UK & Ireland.

**DrayTek**

## UK PSTI STATEMENT OF COMPLIANCE

We, DrayTek Corp., office at No.26, Fushing Rd., Hukou, Hsinchu Industrial Park, Hsinchu 303, Taiwan, declare under our sole responsibility that the product
The full text of the PSTI Declaration of Conformity is available at the following internet address: https://fw.draytek.com.tw/UK/PSTI/

- Product name:        Access Point
- Model number:      VigorAP 903
- Manufacturer:       DrayTek Corp.
- Address:            No.26, Fushing Rd., Hukou, Hsinchu Industrial Park, Hsinchu 303, Taiwan

is in conformity with the relevant UK Statutory Instruments: The Product Security and Telecommunications Infrastructure (Security Requirements for Relevant Connectable Products) Regulations 2023 ("Security Requirements").

| Standard | Version |
|---|---|
| The Product Security and Telecommunications Infrastructure Regulations | 2023 Schedule 1 |
| Support Period | **3** years after the EOL notification |

Please note that this statement of compliance, including the Defined Support Period stated herein, is only applicable to products sold in the UK.
This Statement of Compliance is retained by DrayTek for 10 years after date of issue.

_Alan Wen_

**Hsinchu**                       **11th Apr., 2024**           **Alan Wen**
                                            **General Manager Office, VP**
(place)                         (date)                      (Legal Signature)

# FC  **Regulatory Information**

Federal Communication Commission Interference Statement

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:

(1) This device may not cause harmful interference, and

(2) This device may accept any interference received, including interference that may cause undesired operation.

| USA Local Representative | Company name | ABP International Inc. | | |
|---|---|---|---|---|
| | Address | 13988 Diplomat Drive Suite 180 Dallas TX 75234 | | |
| | ZIP Code | 75234 | E-mail | henry@abptech.com |
| | Contact Person | Mr. Henry N Castillo | Tel. | (972)831-1600 140 |

**Caution**

Any changes or modifications not expressly approved by the grantee of this device could void the user's authority to operate the equipment.

Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate this equipment.

This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.

Radiation Exposure Statement: This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 20cm between the radiator & your body.

Operations in the 5.15-5.25GHz band are restricted to indoor usage only.

# External Power Supply ErP Information

| | | 1 | 2 | 3 | 4 | 5 |
|---|---|---|---|---|---|---|
| A | Manufacturer | DVE | DVE | AMIGO | AMIGO | TOPOW Electronics Co. |
| B | Address | No.5, Pao-Kao Road, Hsin-Tien, New Taipei City 231, Taiwan | No.5, Pao-Kao Road, Hsin-Tien, New Taipei City 231, Taiwan | No.20, Qianyang First Road, Yun-Mao-Tsun, San Xing, Zhongshan, Guangdong, China | No.20, Qianyang First Road, Yun-Mao-Tsun, San Xing, Zhongshan, Guangdong, China | No.8 Xinxing Industrial Park, Xinhe Village, Fuyong Street, Baoan District, Shenzhen, Guangdong, China |
| C | Model identifier | 12PF09-12 FUK / 12PF09-12 FEU/12PF11-12 FEU | 18PFR-12 FUK / 18PFR-12 FEU | 1201000FB | 1202000FV / 1202000FB | 18120-EU-22086 / 18120-UK-23091 |
| D | Input voltage | 100~240V | 100~240V | 100~240V | 100~240V | 100~240V |
| E | Input AC frequency | 50/60Hz | 50/60Hz | 50/60Hz | 50/60Hz | 50/60Hz |
| | Output voltage DC | 12.0V | 12.0V | 12.0V | 12.0V | 12.0V |
| F | Output current | 1.0A | 1.5A | 1.0A | 2.0A | 1.5A |
| G | Output power | 12.0W | 18.0W | 12.0W | 24.0W | 18.0W |
| H | Average active efficiency | 84% | 85.5% | 86.96% | 86.2% | 85.21% |
| I | Efficiency at low load 10% | 79.3% | 83.7% | 77.5% | 79.1% | 80.1% |
| J | No-load power consumptio | 0.06W | 0.07W | 0.10W | 0.10W | 0.1W |

* The external power supply used for each product will be model dependent.

For more update, please visit www.draytek.com.

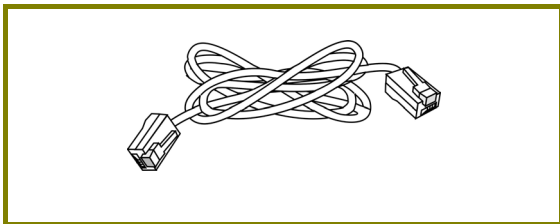# *Table of Contents*

# 1. Package Content

Take a look at the package content. If there is anything missed or damaged, please contact DrayTek or dealer immediately.
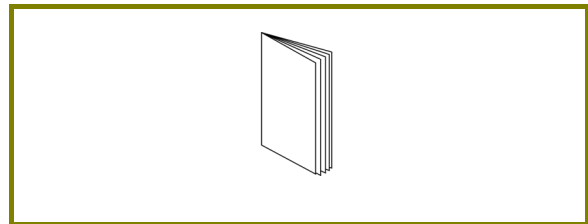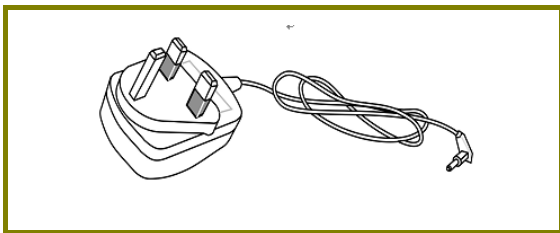


Access Point
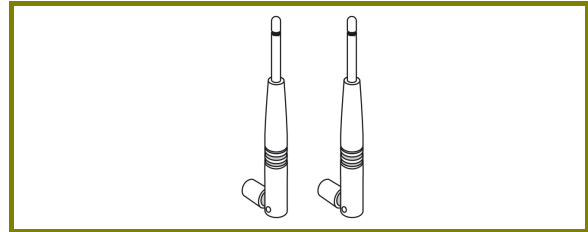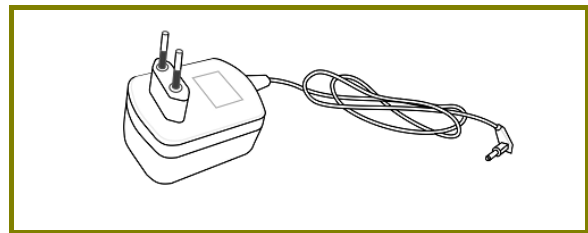


Antenna



RJ-45 Cable (Ethernet)
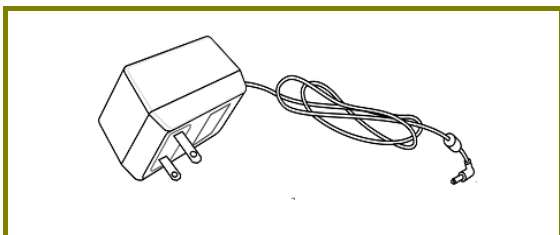


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The type of the power adapter depends on the country that the AP will be installed:
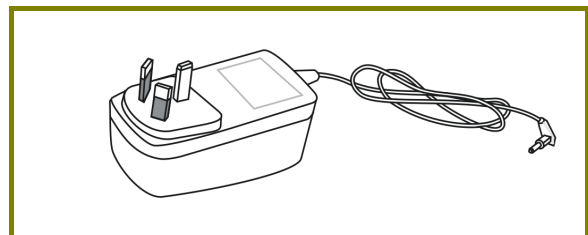


UK-type power adapter



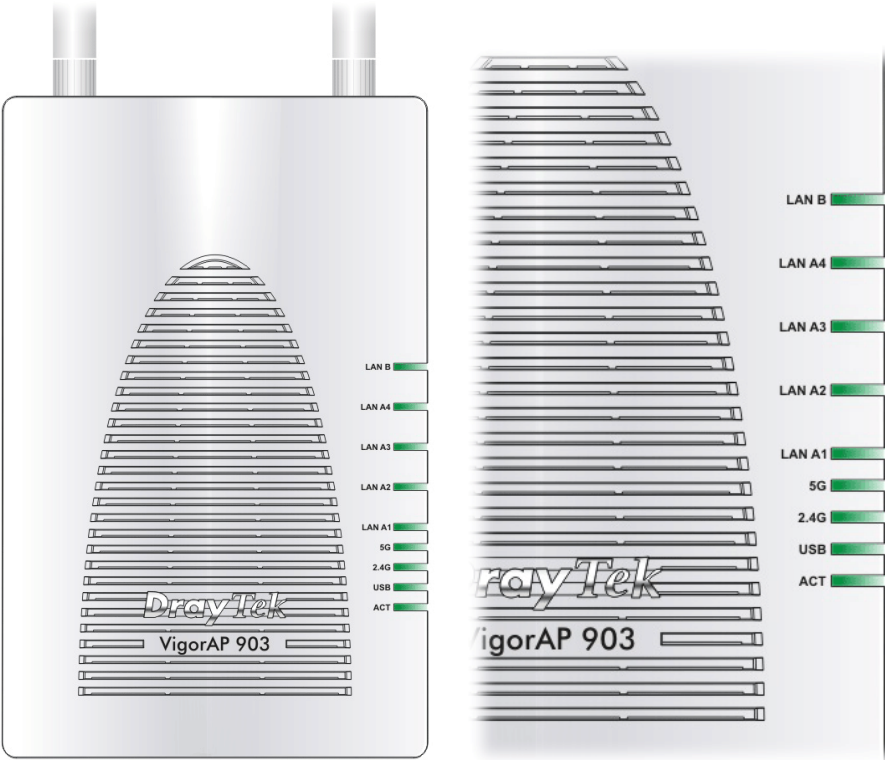EU-type power adapter



USA/Taiwan-type power adapter
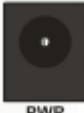


AU/NZ-type Power Adapter



| Note | ● The antenna/transmitter should be kept at least 20 cm away from human body.<br>● The maximum power consumption is **16** Watt. |
|------|---|

# 2. Panel Explanation



| LED | Status | Explanation |
| --- | --- | --- |
| ACT | Off | The system is not ready or is failed. |
|  | Blinking | The system is ready and can work normally. |
| USB | On | A USB device is connected and active. |
|  | Blinking | The data is transmitting. |
| 2.4G | On | Wireless function is ready. |
|  | Off | Wireless function is not ready. |
|  | Blinking | Data is transmitting (sending/receiving). |
| 5G | On | Wireless function is ready. |
|  | Off | Wireless function is not ready. |
|  | Blinking | Data is transmitting (sending/receiving). |
| LAN A1 - A4 | On | A normal connection (rate with 100M/1000M) is through its corresponding port. |
|  | Off | LAN is disconnected. |
|  | Blinking | Data is transmitting (sending/receiving). |
| LAN B | On | A normal connection (rate with 100M/1000M) is through its corresponding port. |
|  | Off | LAN is disconnected. |
|  | Blinking | Data is transmitting (sending/receiving). |

| Interface | Description |
|---|---|
| WLAN ON/OFF /WPS | Wireless band will be switched /changed according to the button pressed and released. For example, <br>● 2.4G (On) and 5G (On) – in default. <br>● 2.4G (Off) and 5G (On) – pressed and released the button once. <br>● 2.4G (On) and 5G (Off) – pressed and released the button twice. <br>● 2.4G (Off) and 5G (Off) – pressed and released the button three times. <br>WPS - When WPS function is enabled by web user interface, press this button for more than 2 seconds. The router will wait for any wireless client connecting to it through WPS. |
| Factory Reset | Restore the default settings. Usage: Turn on the router. Press the button and keep for more than 10 seconds. Then the router will restart with the factory default configuration. |
| LAN B | Connecter for xDSL / Cable modem (Giga level) or router. |
| LAN A4, A3, A2 <br><br> A1 (PoE) | Connecter for xDSL / Cable modem (Giga level) / computer or router. <br>LAN A1 is used for PoE connection (for indoor use). |
| PWR | PWR: Connecter for a power adapter. |
| USB | Connecter for a USB device (for temperature sensor). |
| ON OFF | Power switch. |

**Note**
- For the sake of security, make the accessory kit away from children.
- Remove the protective film from the access point before use to ensure ventilation.

# 3. Installation

This section will guide you to install the AP through hardware / wall-mounting connection.

For hardware connection, refer to the following steps to connect your devices correctly.

1. Connect VigorAP 903 to xDSL modem, router, or switch/hub in your network through the **LAN A** port of the access point by Ethernet cable.

   You can also connect VigorAP 903 to a Vigor router via wireless connection. For detailed information, refer to VigorAP 903 User's Guide.

2. Connect a computer to other available LAN A port. Make sure the subnet IP address of the PC is the same as VigorAP 903 management IP, e.g., 192.168.1.X.

3. Connect the A/C power adapter to the wall socket, and then connect it to the PWR connector of the access point.

4. Power on VigorAP 903.

5. Check all LEDs on the front panel. ACT LED should blink, LAN LEDs should be on if the access point is correctly connected to the xDSL modem, router or switch/hub.
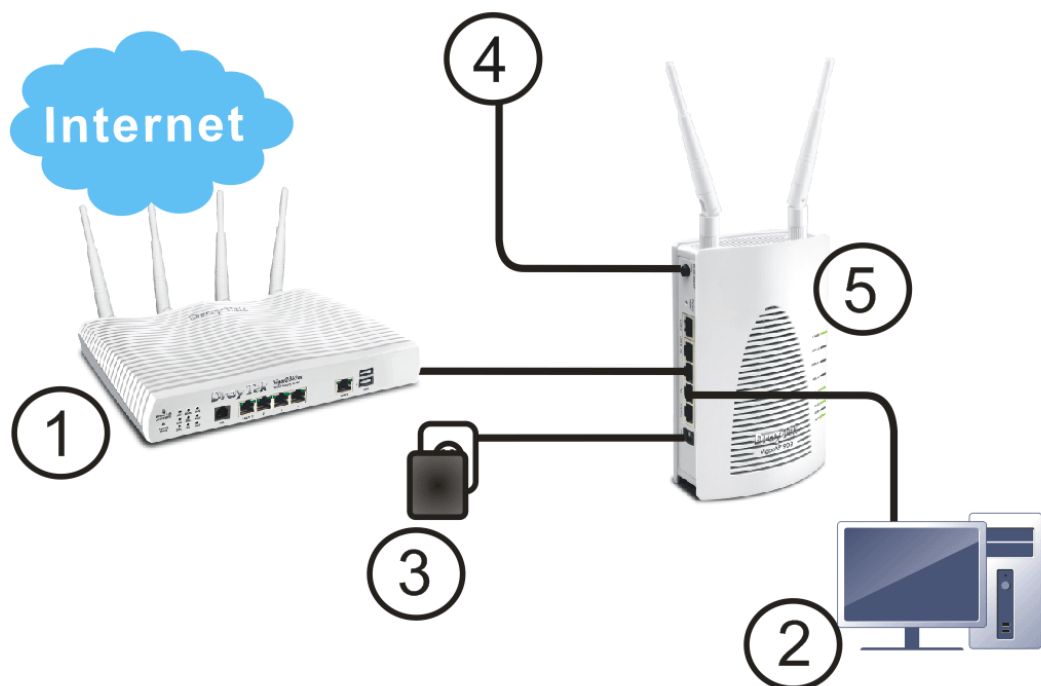
For wall-mounting, refer to the following steps.

1.  Drill two holes on the wall. The distance between the holes shall be 80mm. The recommended drill diameter shall be 6.5mm (1/4").

2.  Fit screws into the wall using the appropriate type of wall plug.

3.  Hang the VigorAP directly onto the screws.



WALL

M3.5*16mm
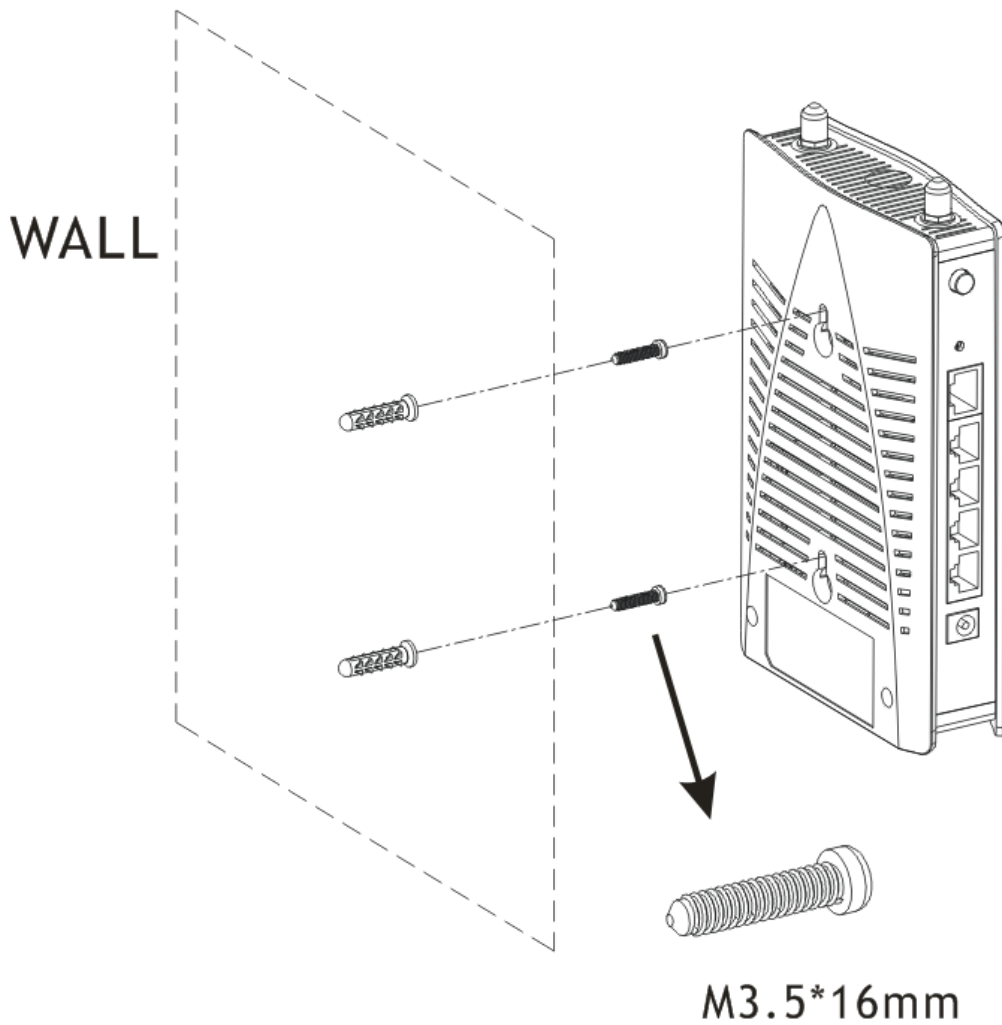
# 4. Connection and Configuration

This section will guide you to install the AP and make configuration for VigorAP.

## Connected As a Mesh Node (in Mesh Network)



❶ Install VigorAP on the place you want.

❷ As a mesh node, settings related to VigorAP 903 must be configured by a remote Mesh Root (e.g., VigorAP 903) within the mesh network. The user must detect VigorAP 903 via a Mesh Root to add it as a mesh node.

## Connected As an Access Point

As an access point, VigorAP 903 must be connected to a router and configured in AP (Access Point) / Range Extender mode.

❶ Connect VigorAP to a Vigor router.

❷ Use a twisted-pair cable with RJ-45 plugs at both ends, and plug into Ethernet device (e.g., Vigor router) and Ethernet port of VigorAP.
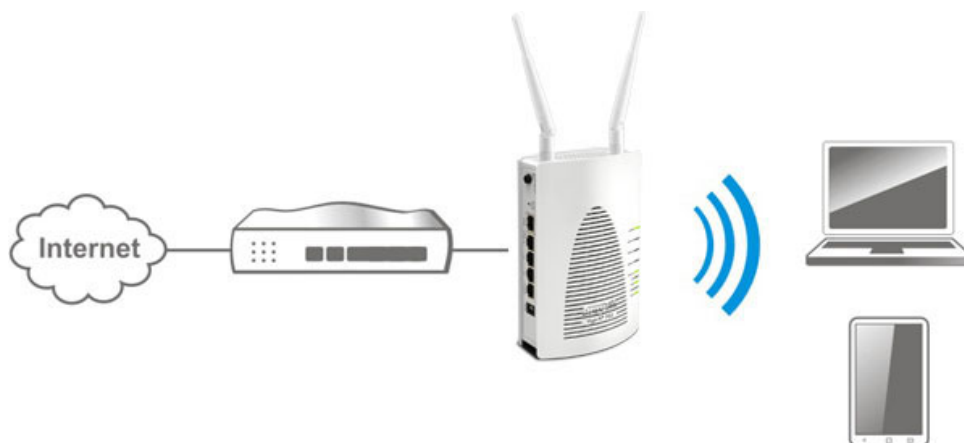
❸  There are **two methods** to configure VigorAP.

**Method 1:**

1.  Make sure your PC connects to the modem correctly.

2.  Open a web browser on your PC and type **http://192.168.1.2.** A pop-up window will open to ask for username and password. Please enter "admin/admin" as the Username/Password and click **Login**.
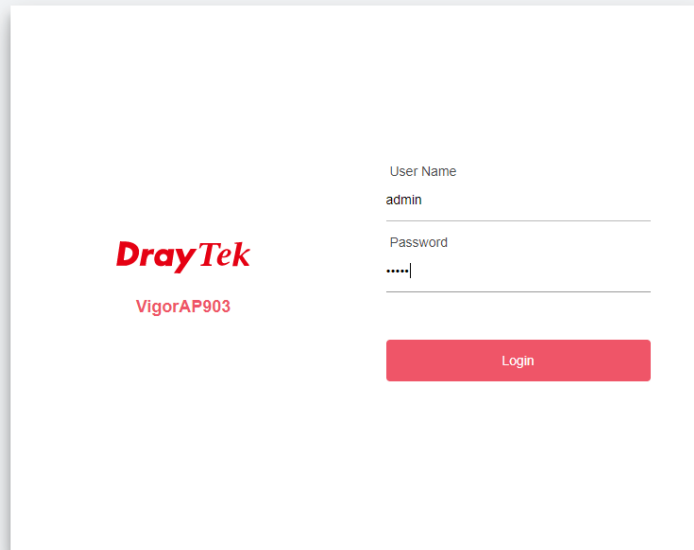


| Note | You may either simply set up your computer to get IP dynamically from the router or set up the IP address of the computer to be in the same subnet as **the IP address of VigorAP 903.** |
|---|---|
| | ● If there is no DHCP server on the network, then VigorAP 903 will have an IP address of 192.168.1.2. |
| | ● If there is DHCP available on the network, then VigorAP 903 will receive its IP address via the DHCP server. |
| | ● If you connect to VigorAP by wireless LAN, you could try to access the web user interface through http://vigorap.com. |

3. Next, the page will appear to guide you change the login password. You **MUST** change the login password before accessing the web user interface. Please set a new password for network security.

**System Maintenance >> Administration Password**

**Administrator Settings**

| | |
|---|---|
| Account | admin |
| Old Password | ••••• |
| New Password | •••••••• |
| Confirm Password | •••••••• |
| Password Strength: | Weak | Medium | **Strong** |

**Strong password requirements:**

1. Must be a minimum of 8 characters.
2. Contain at least three of the following for a strong password:
   uppercase letters
   lowercase letters
   numbers
   symbols

**Note :** Authorization Account can contain only a-z A-Z 0-9 , ~ ` ! @ $ % ^ * ( ) _ - + = { } [ ] | ; < > . ?

Authorization Password can contain only a-z A-Z 0-9 , ~ ` ! @ # $ % ^ & * ( ) _ - + = { } [ ] | \ ; < > . ? /

OK    Cancel

4. After clicking **Apply**, the Main Screen will pop up. When the homepage appears, view the configuration and modify the settings if you want.
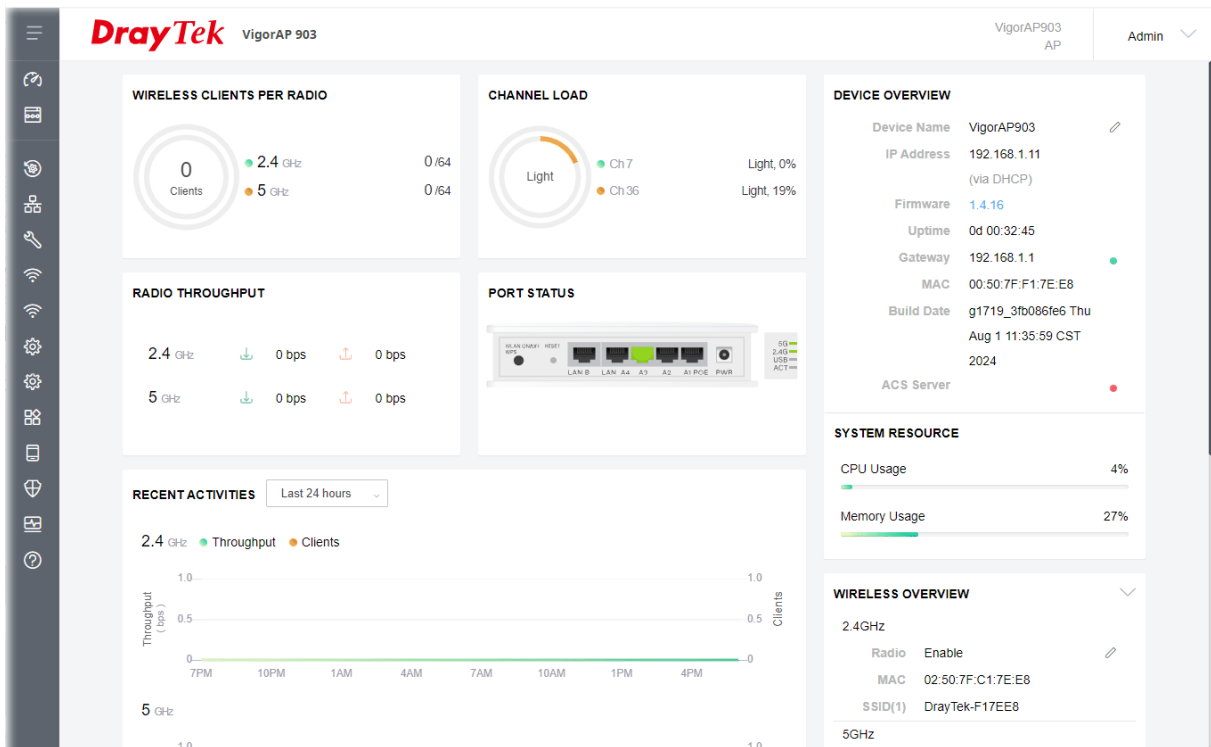
**Method 2:**

1.  Use a mobile phone to scan the QR code named with **DrayTek Wireless App** to download DrayTek Wireless APP.



2.  After opening the DrayTek website, use the scroll bar to locate the Wireless APP.



3.  Based on the mobile phone type (Android or iOS) you have, select the one you need to download the APP. Then, run the APP.

4.  From the home page, click the **Connect** icon to access the **Connect** page. Next, press the QR code icon next to Scan QR Code on your phone screen to open the camera.

    Scan the QR code named with **Connect SSID** to access the web user interface (configuration wizard) of VigorAP. (For iOS users, the SSID and the password will be shown first. Simply click the **Connect** button to access the web user interface of VigorAP.)
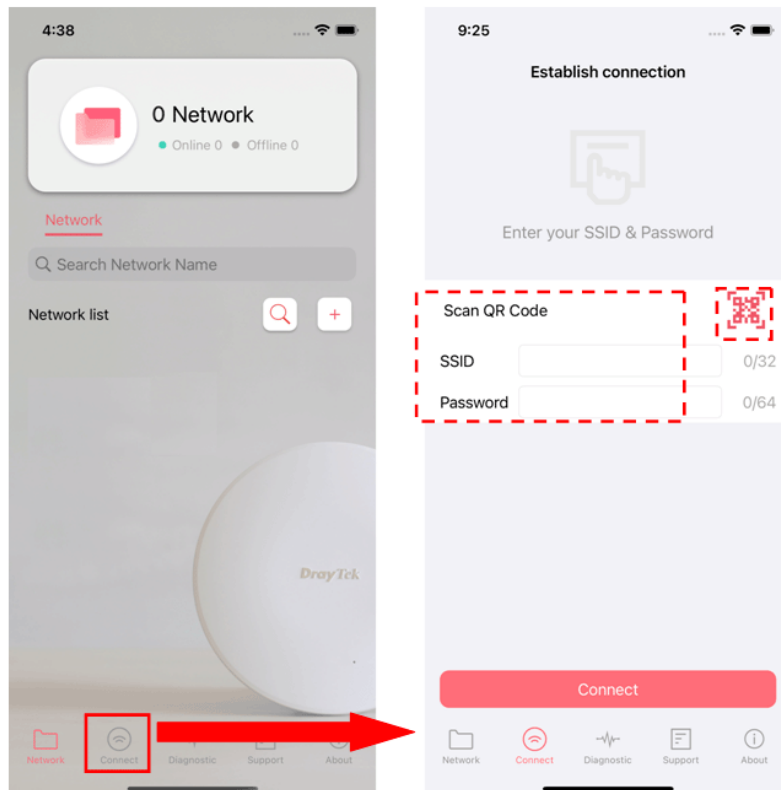
# 5. Customer Service

If the device cannot work correctly after trying many efforts, please contact your dealer/DrayTek for further help right away. For any questions, please feel free to send e-mail to "support@draytek.com".

## Be a Registered Owner

Web registration is preferred. You can register your Vigor router via https://myvigor.draytek.com.

## Firmware & Tools Updates

Due to the continuous evolution of DrayTek technology, all routers will be regularly upgraded. Please consult the DrayTek web site for more information on newest firmware, tools and documents.

https://www.draytek.com

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| | Version 2, June 1991 |
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