

RAK7268V2/RAK7268CV2 Quick Start Guide

#Prerequisites

#What Do You Need?

1. [RAK7268V2/RAK7268CV2 WisGate Edge Lite 2](#)(opens new window)
2. [Ethernet Cable](#) (opens new window)(RJ-45 Port) for Ethernet connection
3. A Windows/macOS/Linux computer

WARNING

- The SIM card slot of the cellular versions is not hot-swappable. Make sure the gateway is switched off before inserting or ejecting the SIM card.
- The SD card found in the SD card slot must not be ejected, as it might affect the performance of the device, as different logs and data are stored on it.

#Product Configuration

#Power on the Gateway

1. Attach the LoRa Antenna.

First and foremost, screw the antenna onto the RP-SMA connector on the back panel of the RAK7268V2/RAK7268CV2 WisGate Edge Lite 2.

WARNING

Do not power the device if the LoRa Antenna port has been left open to avoid potential damage to the RAK7268V2/RAK7268CV2 WisGate Edge Lite 2.

2. Power the gateway **ON**.

It is recommended to use the 12 VDC adapter that comes with the RAK7268/RAK7268CV2 WisGate Edge Lite 2. Optionally, you can use your own PoE cable and PoE injector since the device supports PoE.

#Casing and Ports



Figure 1: RAK7268V2/RAK7268CV2 WisGte Edge Lite 2 top view



Figure 2: RAK7268V2/RAK7268CV2 WisGte Edge Lite 2 back view

#Status LED Indicators

LEDs	Status Indication Description
PWR LED	Power indicator - The LED is on when device power is on
Breathing LED	Breathing after system up
ETH LED	ON - Linkup
	OFF - Linkdown
	Flicker - Data transmitting and receiving
LoRa LED	ON - LoRa is working
	OFF - LoRa is not working
	Flicker - Indicate LoRa Packet receiving and sending
WLAN LED	AP Mode:
	-ON - the AP is up
	-OFF - The AP is down
	-Flicker - Data receiving and sending

LEDs	Status Indication Description
	STA Mode:
	-Slow flicker (1 Hz) - Disconnected
	-ON - Connected
	-Flicker - Data receiving and sending
LTE LED (functional only in RAK7268CV2)	Slow Flicker (1800 ms High / 200 ms Low) - Network searching
	Slow flicker (200 ms High / 1800 ms Low) - Idle
	Fast flicker (125 ms High / 125 ms Low) - Ongoing data transfer

[#Reset Key Functions](#)

The functions of the **Reset** key are as follows:

1. **Short press** - Restarts the gateway.
2. **Long press (5 seconds and above)** - Restores factory settings.

[#Access the Gateway](#)

In this section, several ways of accessing the gateway are provided to have different alternatives for you to choose from depending on the availability of the requirements needed.

WARNING

Do not power the device if the LoRa Antenna port has been left open to avoid potential damage to the RAK7268V2/RAK7268CV2 WisGate Edge Lite 2.

[#Wi-Fi AP Mode](#)

By default, the gateway will work in Wi-Fi AP Mode, which means that you can find an SSID named **RAK7268_XXXX** on your PC's Wi-Fi Network List. **XXXX** is the last two bytes of the gateway's MAC address. To access the Web Management Platform, input the IP Address: **192.168.230.1** in your Web browser.

 NOTE:

No password is required to connect via Wi-Fi

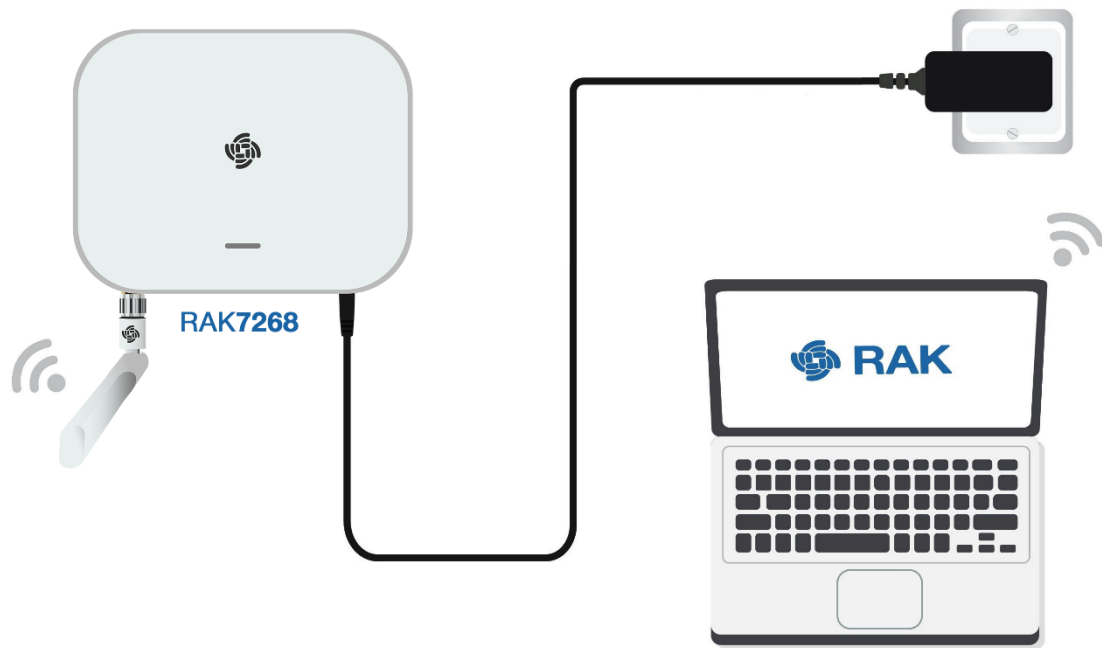


Figure 3: Accessing the gateway via Wi-Fi AP mode

#WAN Port (Ethernet)

1. Connect the Ethernet cable to the gateway port marked ETH and the other end to your PC.

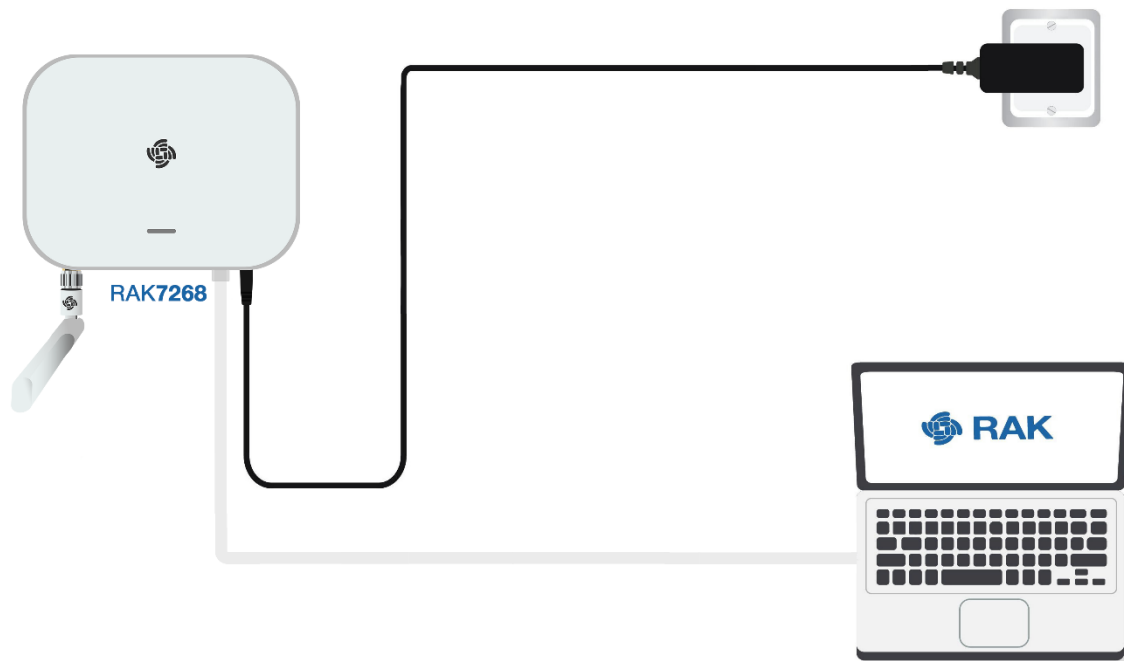


Figure 4: Accessing the gateway via Wi-Fi AP mode

2. The default IP is **169.254.X.X**. The last two segments (X.X) are mapped from the last four bits of the MAC address of your gateway. For example, the last four bits of the MAC address are **0F:01**, and the IP address is 169.254.15.1. Make sure to manually set the address of your PC to one in the same network (for example, 169.254.15.100).
3. To do this, open the head to the **Ethernet Properties** and click the **Internet Protocol Version 4 (TCP/IPv4)**.

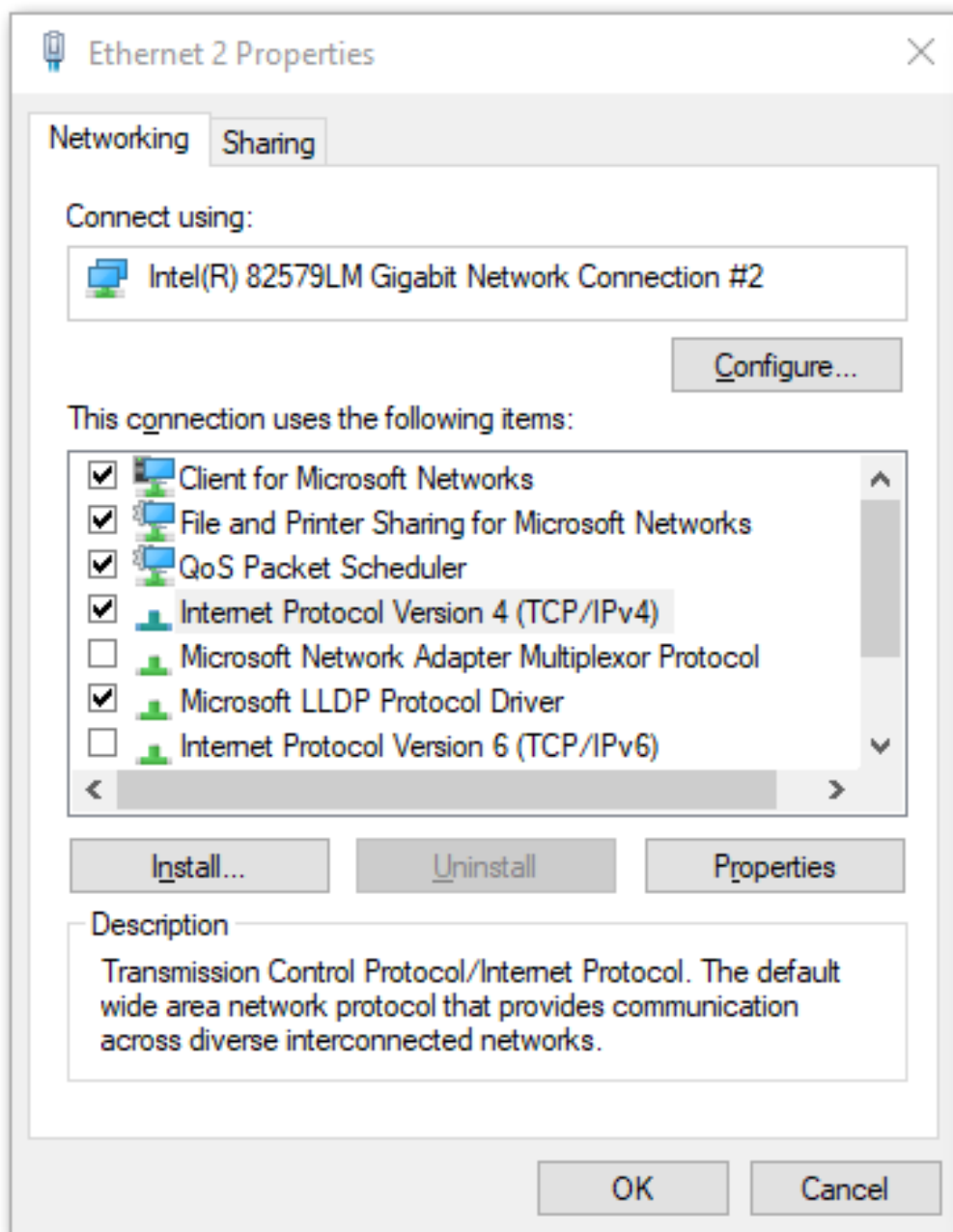


Figure 5: Internet properties

4. Select **Use the following IP address** and set the IP address (for this example to 169.254.15.100).

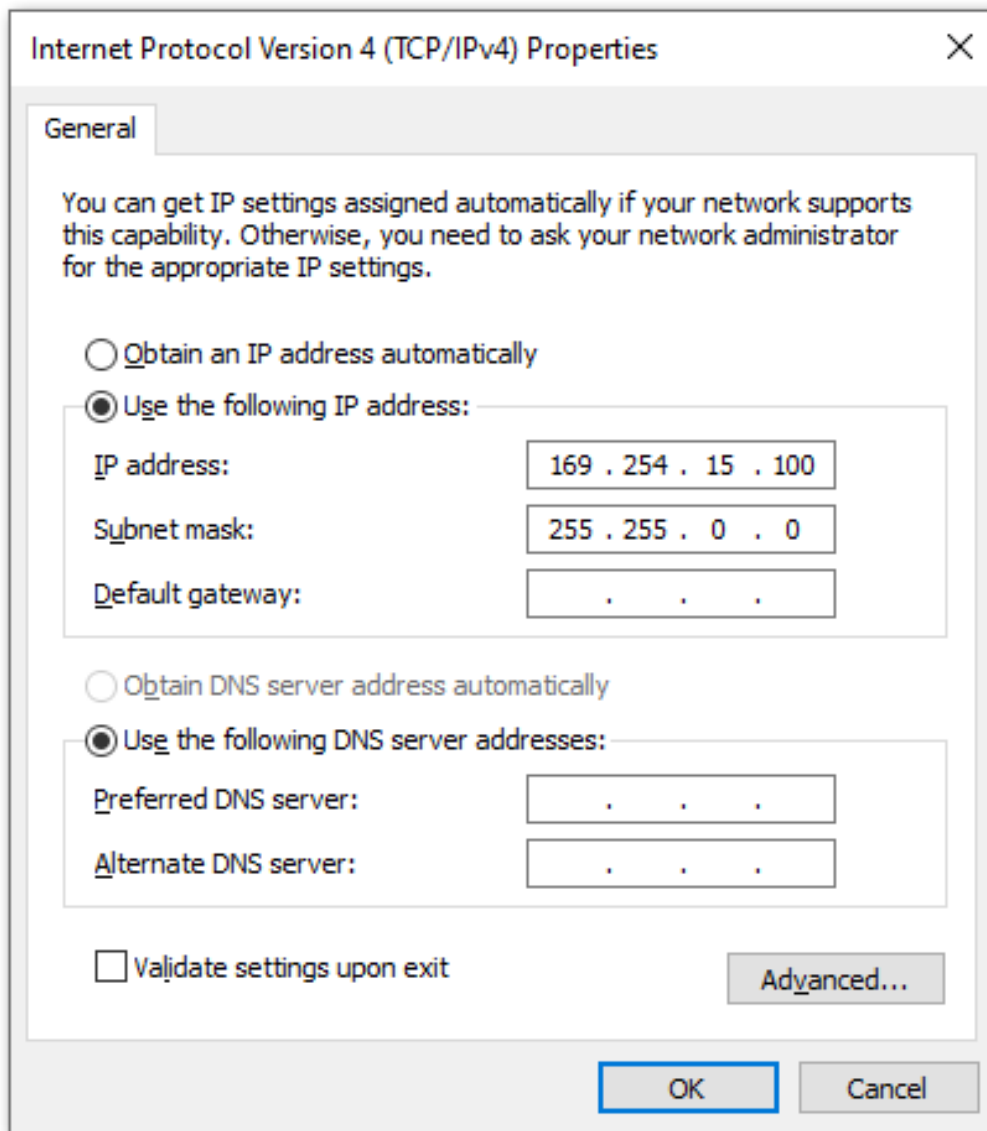


Figure 6: Setting IP address of the PC

In this example, you can access the gateway on the 169.254.15.1 address.

#Set Login Password

1. For security reasons, upon the first login, the user must set a login password. This is done by filling in the desired password and confirming it in the provided fields.

The password needs to comply with the following rules:

- Should be at least 12 characters long;
- Has at least one special character (!"#\$%&\'()*+,-./:;<=>?@[^_`{|}~);
- Has at least one number;
- Has at least one standard Latin letter (used in the English alphabet).

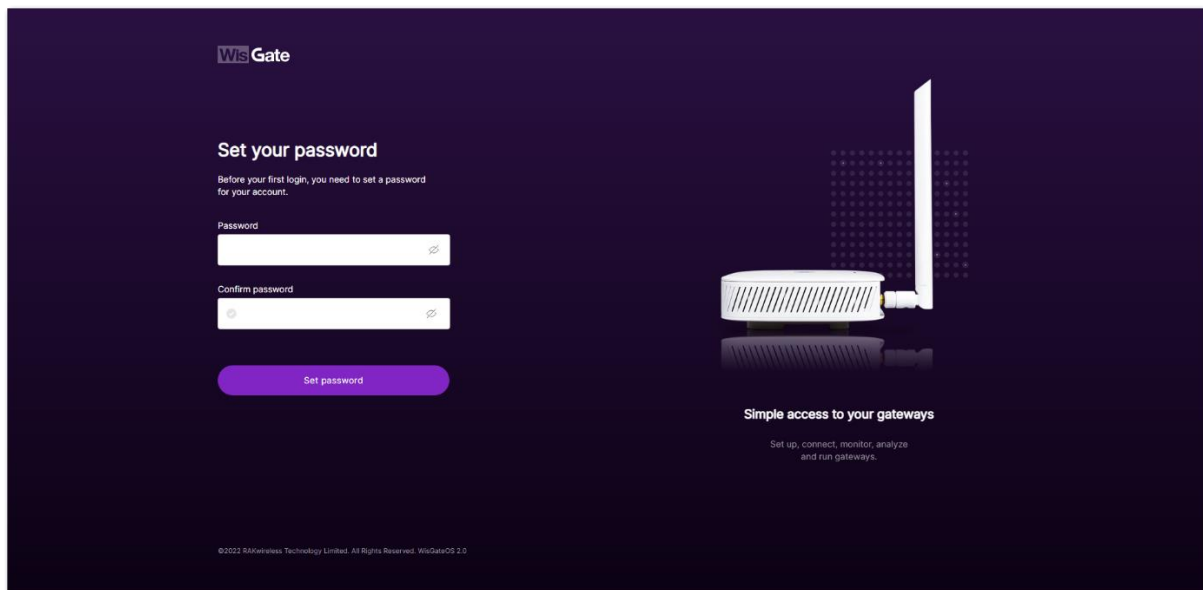


Figure 7: Web UI login page

2. When the fields are filled in, click the **Set password** button to apply it. The Web UI is now accessible, and it will load the **LoRaWAN Statistics** page.

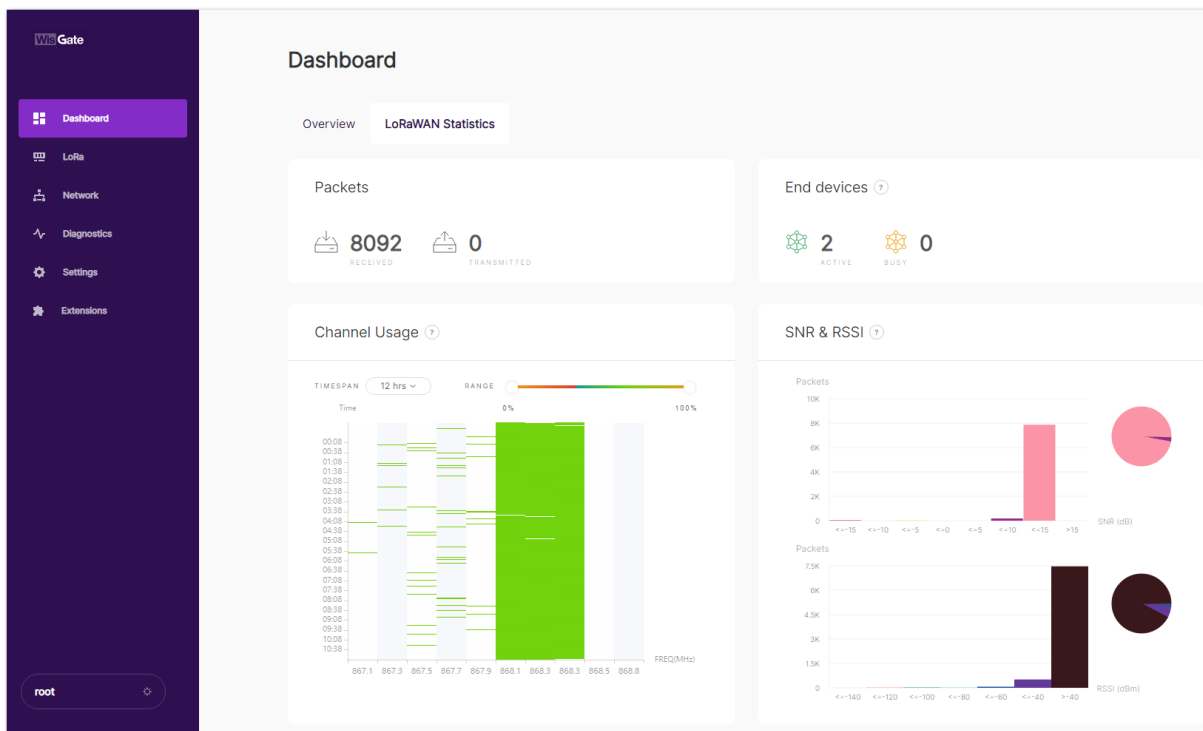


Figure 8: LoRaWAN statistics page

3. On the next login, the user needs to use the set password for access. The default login username is **root**.

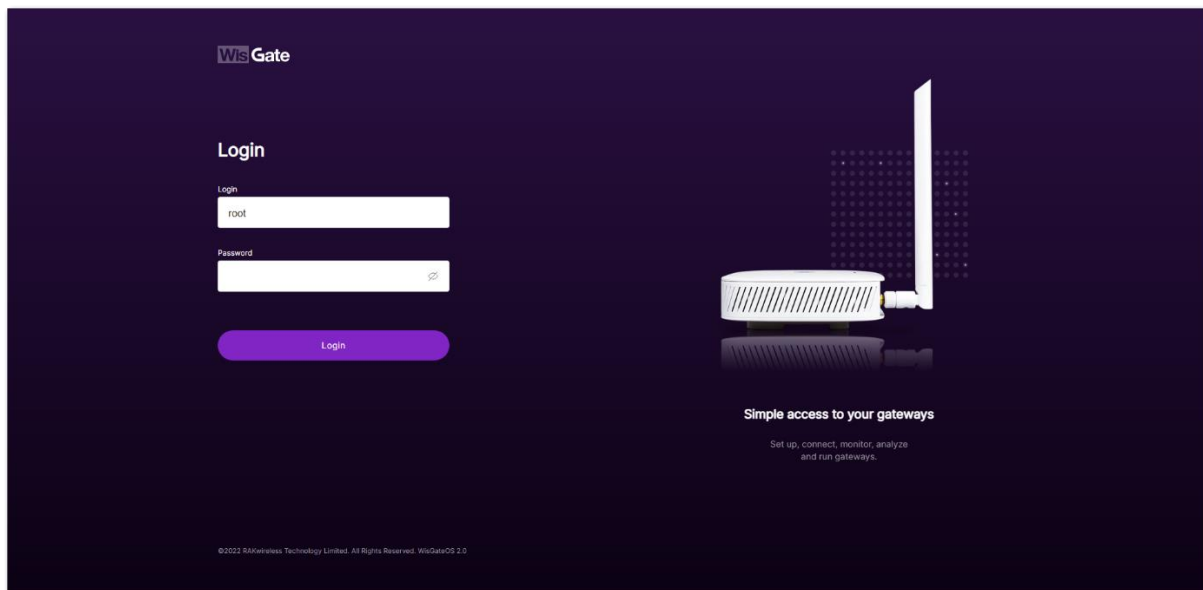


Figure 9: Login Page with set password

[#Access the Internet](#)

[#Connect through Wi-Fi](#)

1. Access the gateway's Web UI. Navigate to **Network > WAN > Wi-Fi Menu**. Expand the Wi-Fi field and click on **Settings**. Make sure to enable the **Interface** as it is disabled initially.

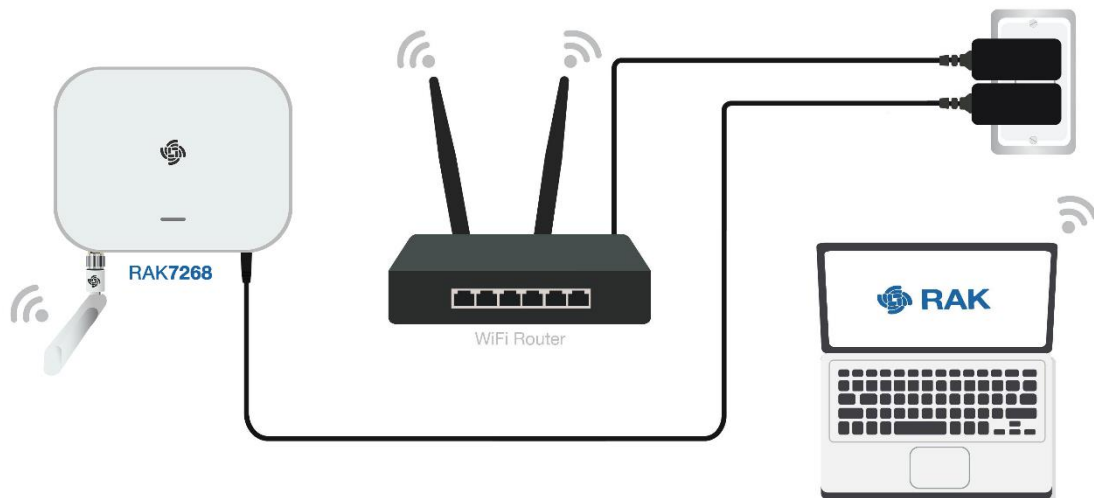


Figure 10: Accessing the gateway via Wi-Fi AP mode

For additional information, check the [WisGateOS 2 User manual.\(opens new window\)](#)

Interface

Enabled

Disabled

(E)SSID network

Scan

RAK7258_F704

WPA2-PSK

TP-Link_B199

WPA2-PSK

RAK7258_D2F1

WPA2-PSK

RAK7258_D313

NO ENCRYPTION

Slavov-2GHz

WPA2-PSK

Click scan to find available Wi-Fi networks or [enter network \(E\)SSID manually.](#)

Encryption

No Encryption

WPA-PSK

WPA2-PSK

WPA-PSK/WPA2-PSK Mixed Mode

Protocol

Figure 11: Connect through Wi-Fi credentials

2. You can either click the **Scan** button to choose your **ESSID** or manually type the ESSID of the network by clicking **enter network (E)SSID manually**.
3. Select the right **Encryption** method and enter the correct **Key**.

 NOTE:

Assuming you have entered the correct parameter values you should get an IP address assigned by your Wi-Fi router's (AP) built-in DHCP server. You can use this new IP address to log in via a web browser (the same way as in AP mode).

#Connect through Ethernet

1. Connect the Ethernet cable to the port marked **ETH** on the gateway and the other end to the router. The router's DHCP server should assign an IP Address to the gateway.

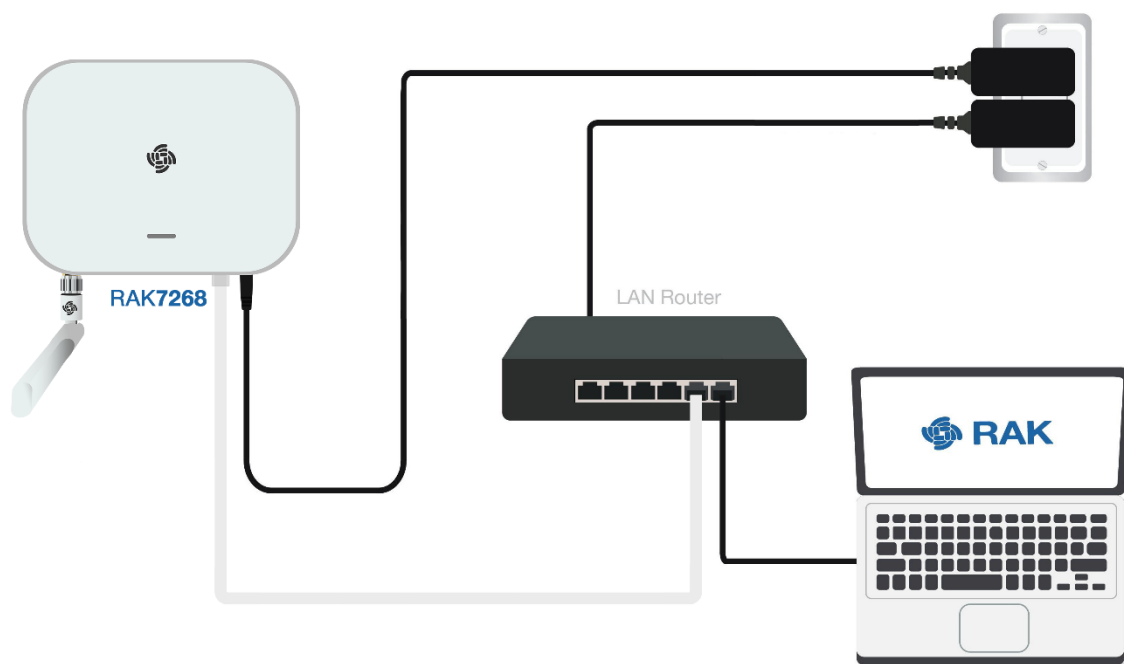


Figure 12: Connect through Ethernet settings

2. Connect your PC to the LAN router.
3. Now, you can access the assigned IP to access the gateway. You can change the default settings if you wish (details in the [WisGate2 OS User Manual \(opens new window\)](#)).

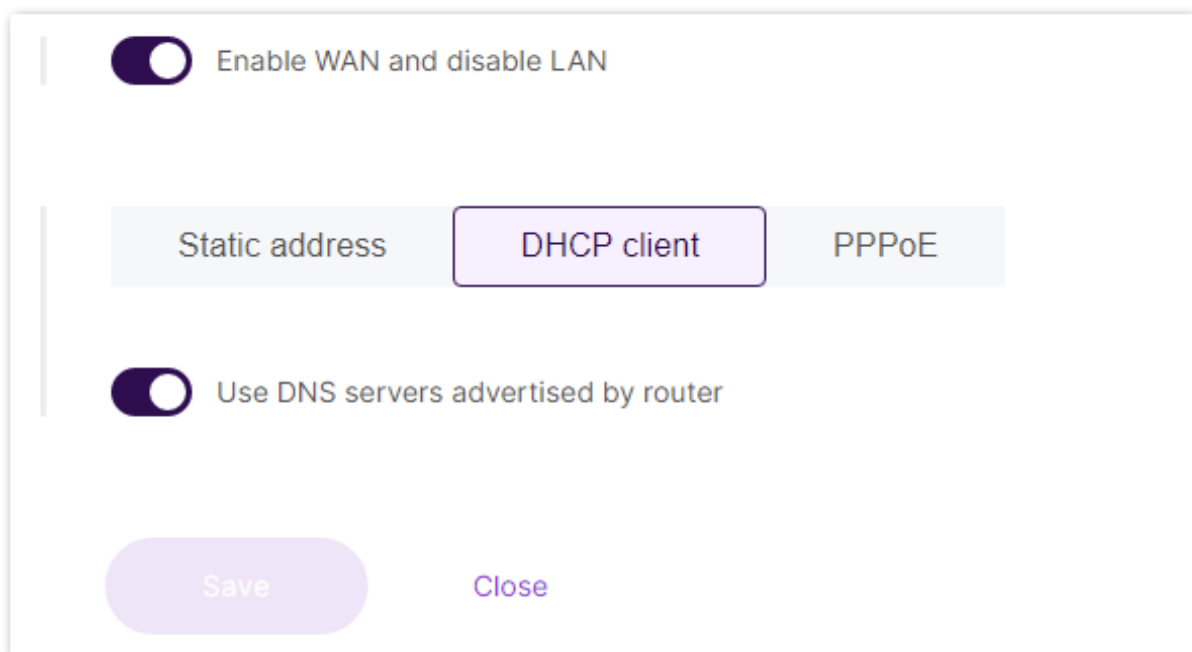


Figure 13: Connect through Ethernet settings