RAK7268 Quick Start Guide

Prerequisites

What Do You Need?

1. **RAK7268/RAK7268C WisGate Edge Lite 2**
2. Ethernet Cable (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.

Product Configuration

Power on the Gateway

1. Attach the LoRa Antenna.

First and foremost, screw on the antenna to the RP-SMA connector on the back panel of the RAK7268/C 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 RAK7268/RAK7268C WisGate Edge Lite 2.

2. Power the gateway **ON**.

It is recommended to use the **12 V DC adapter** that comes with the RAK7268/RAK7268C WisGate Edge Lite 2. Optionally, you can use your own **PoE cable** and **injector** since the device supports PoE.

Casing and Ports

Figure 1: RAK7268/C WisGte Edge Lite 2 Top View

Figure 2: RAK7268/C WisGate Edge Lite 2 Back Panel

Status LED Indicators

LEDs	Status Indication Description
PWR LED	Power indicator - The LED is on when the device powered.
Breathing LED	Breathing after system is up
ETH LED	ON - Link is up
	OFF - Link is down
	Flicker - Ongoing data transfer
LoRa LED	ON - LoRa is up
	OFF - LoRa is down
	Flicker - Ongoing data transfer
WLAN LED	AP Mode: - ON - The AP is up - OFF - The AP is down - Flicker - Ongoing data transfer STA Mode: - Slow flicker (1 Hz) - Disconnected - ON - Connected - Flicker - Ongoing data transfer
LTE LED (will light up only on RAK7268C)	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 RAK7268/RAK7268C 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.

> 📝 **NOTE:**
>
> No password is required to connect via Wi-Fi

Using your preferred Web browser, log in with the credentials provided below:

- **Browser Address**: 192.168.230.1
- **Username**: root
- **Password**: root

WAN Port (Ethernet)

Connect the Ethernet cable to the port marked ETH on the gateway and the other end to the PoE port of the PoE injector. Connect the LAN port of the PoE injector to your PC.

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). Use the same credentials for the Web UI as for AP mode.

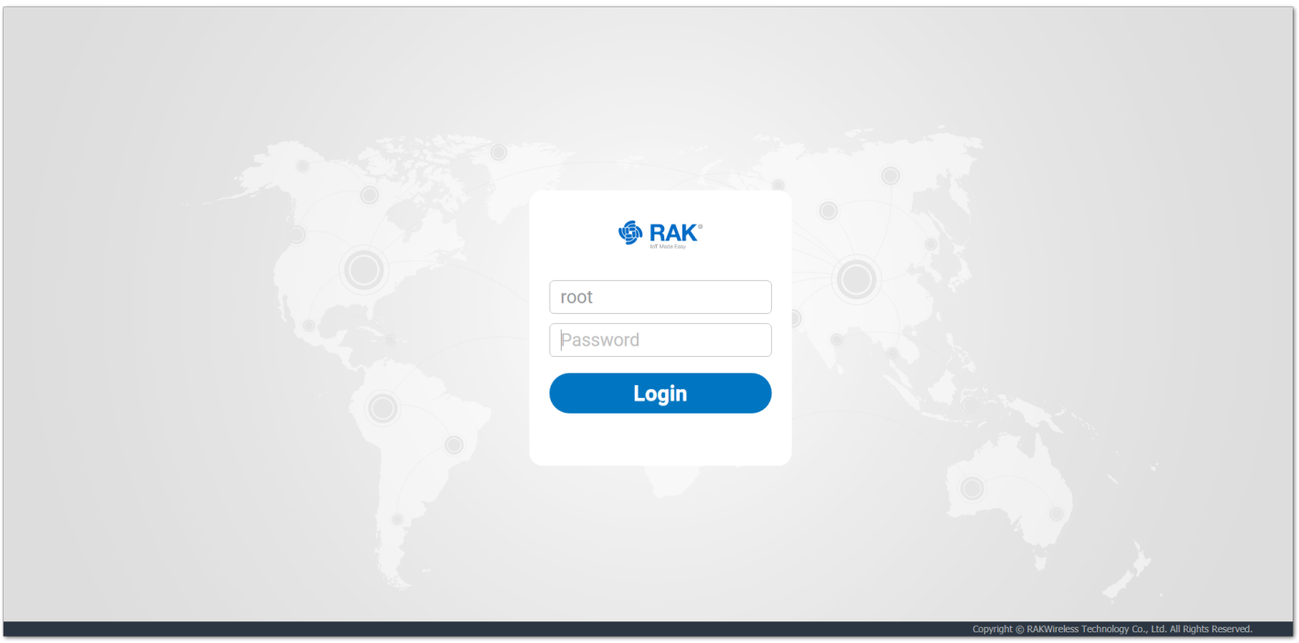

Figure 3: Web UI Login Page

Access the Internet

Connect through Wi-Fi

Go into the **Network>Wi-Fi** menu and make sure to select **Client** in the **Mode** field. Enter or click "**Scan**" to choose your **ESSID**, select the right **Encryption** method and enter the correct **Key**.

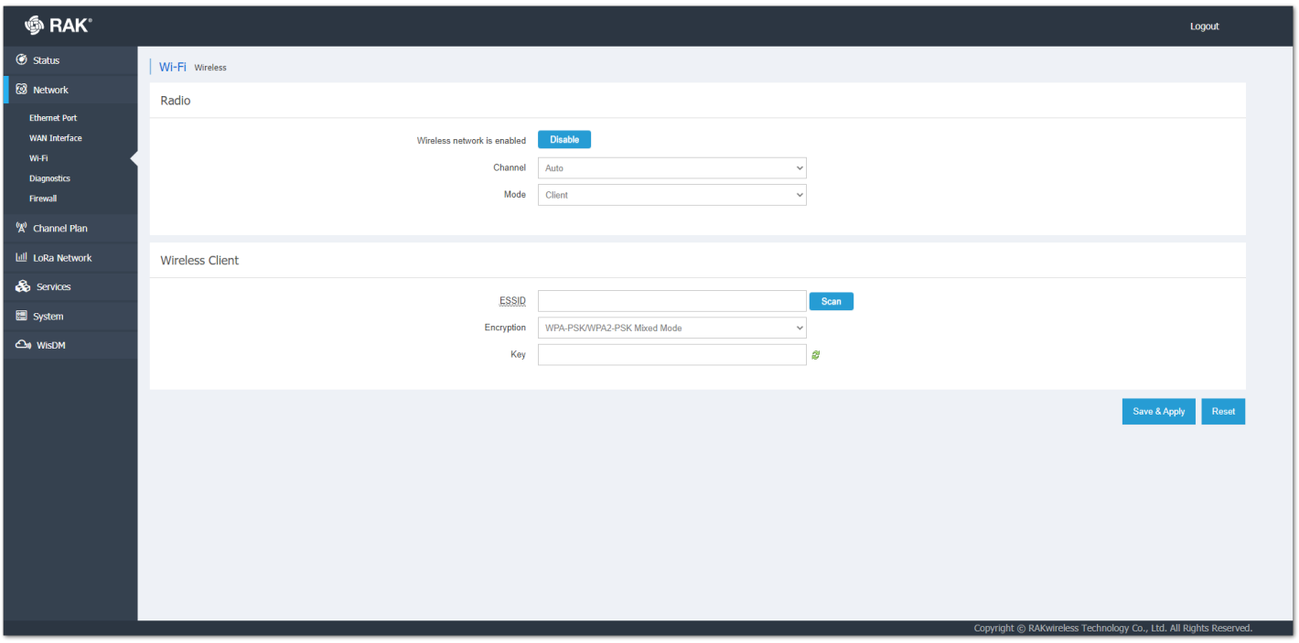

Figure 4: Connect through Wi-Fi Credentials

> 📝 **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 (same way as in AP mode).

Connect through Ethernet

Connect the one end of the Ethernet cable to the Ethernet on the Gateway and the other end to your router. The router’s DHCP server should assign an IP Address to the Gateway. You can change the default settings below if you wish (Full details in the WisGateOS User Manual).

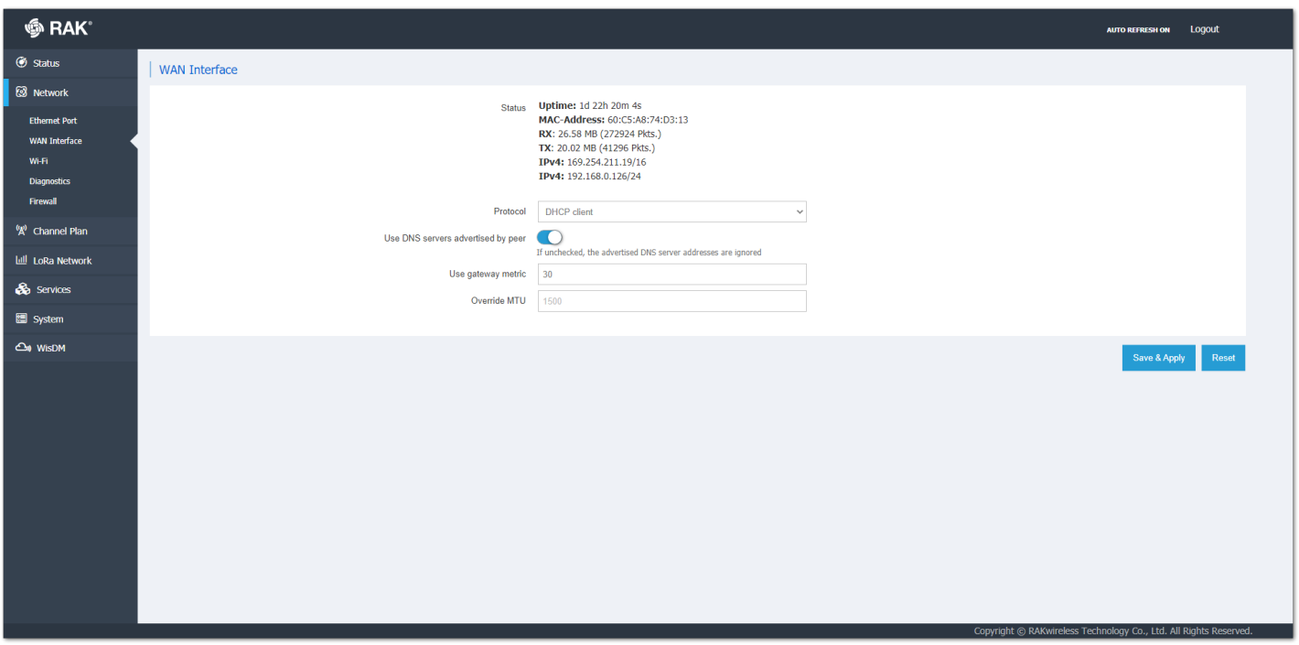

Figure 5: Connect through Ethernet Settings

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