

Omada 5G WAN Configuration Guide

ฐานความรู้ คู่มือการกำหนดค่า

🕒 01-29-2026 👁 12281

Contents

[Introduction](#)

[Requirements](#)

[Configuration](#)

[Configuration in Standalone Mode](#)

[Configuration in Controller Mode](#)

[Conclusion](#)

Introduction

Omada has published the brand new 5G ODU (OutDoor Unit) ER701-5G-OD, which supports dual SIM (Backup mode) and 5G WAN connection with speeds up to 7.01 Gbps. This article introduces how to set up the 5G WAN connection with a SIM card.

The ER701-5G-OD primarily provides WAN network connectivity in scenarios where wired network access is unavailable or serves as a backup WAN for IDU devices. It's commonly installed outdoors where the cellular network signal is better. This device has only one port, which supports PoE as power input; a passive PoE adapter is also included in the product package. Therefore, it is recommended to insert the SIM card before installation and connect the device directly to a PoE power source after outdoor installation. We aim to minimize frequent physical operations after installation, as it's typically installed in hard-to-reach locations.

Requirements

- ER701-5G-Outdoor
- Compatible SIM Cards

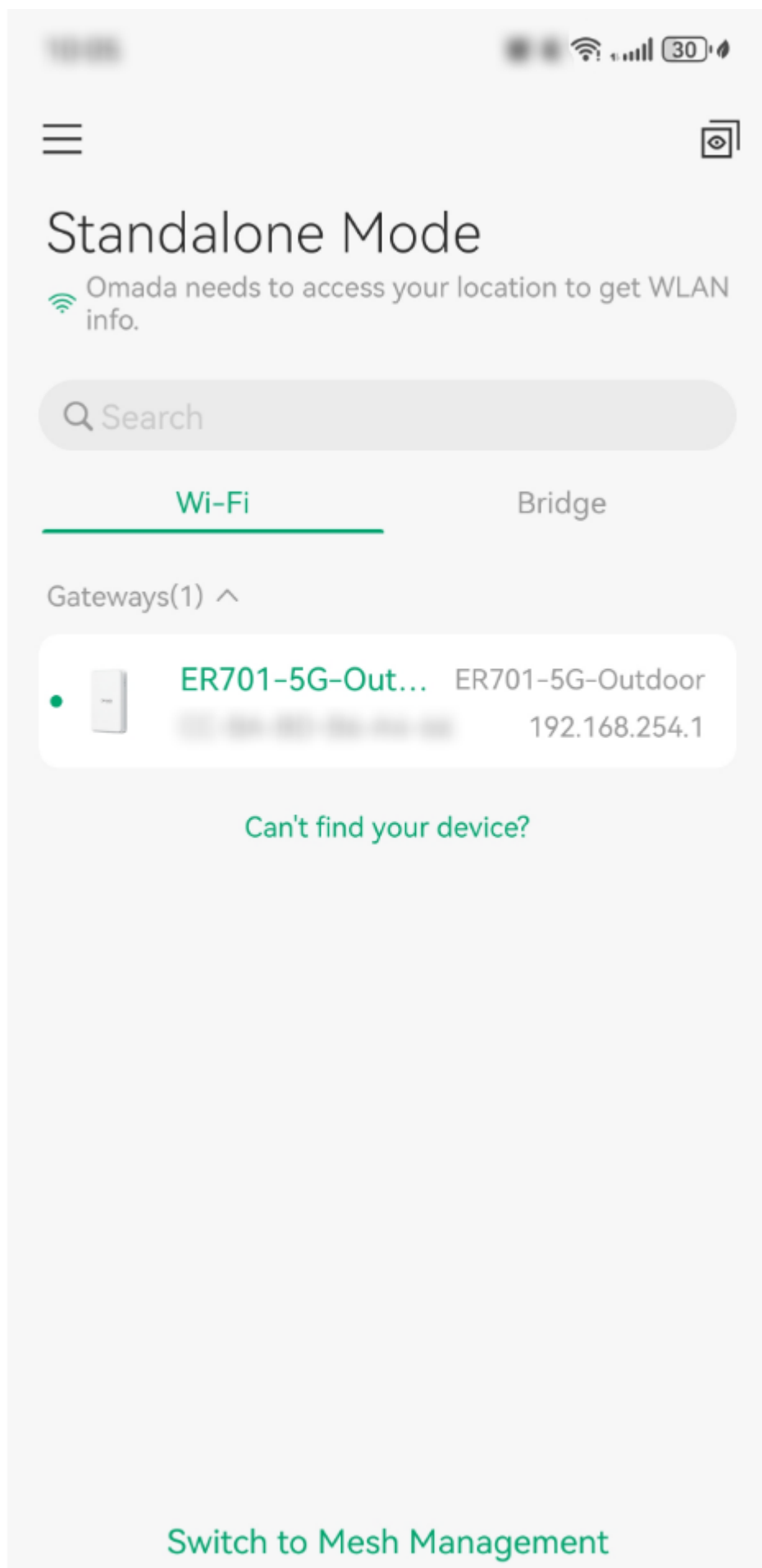
Configuration in Standalone Mode

This section will introduce how to make the WAN configuration under standalone mode.

- Through the Omada App

Step 1. Power on the ER701-5G-OD and insert a compatible SIM card. In the factory reset state, the ER701-5G-OD will broadcast a 2.4Ghz SSID named Omada_2.4GHz_XXXXXX. This SSID is designed for convenience device configuration. Go to the wireless settings on your phone and connect to this SSID.

Step 2. Open the Omada App and go to the **Standalone Mode** page. It will automatically appear on the Wi-Fi list.

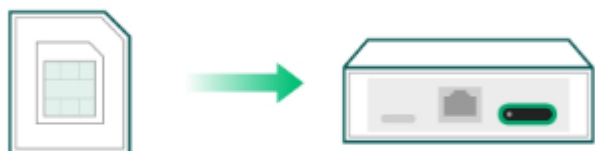




Preconfigure Guide

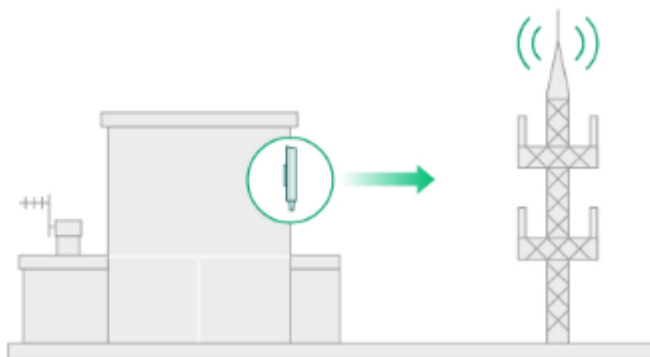
- 1 Insert the SIM card into the slot until you hear a click.

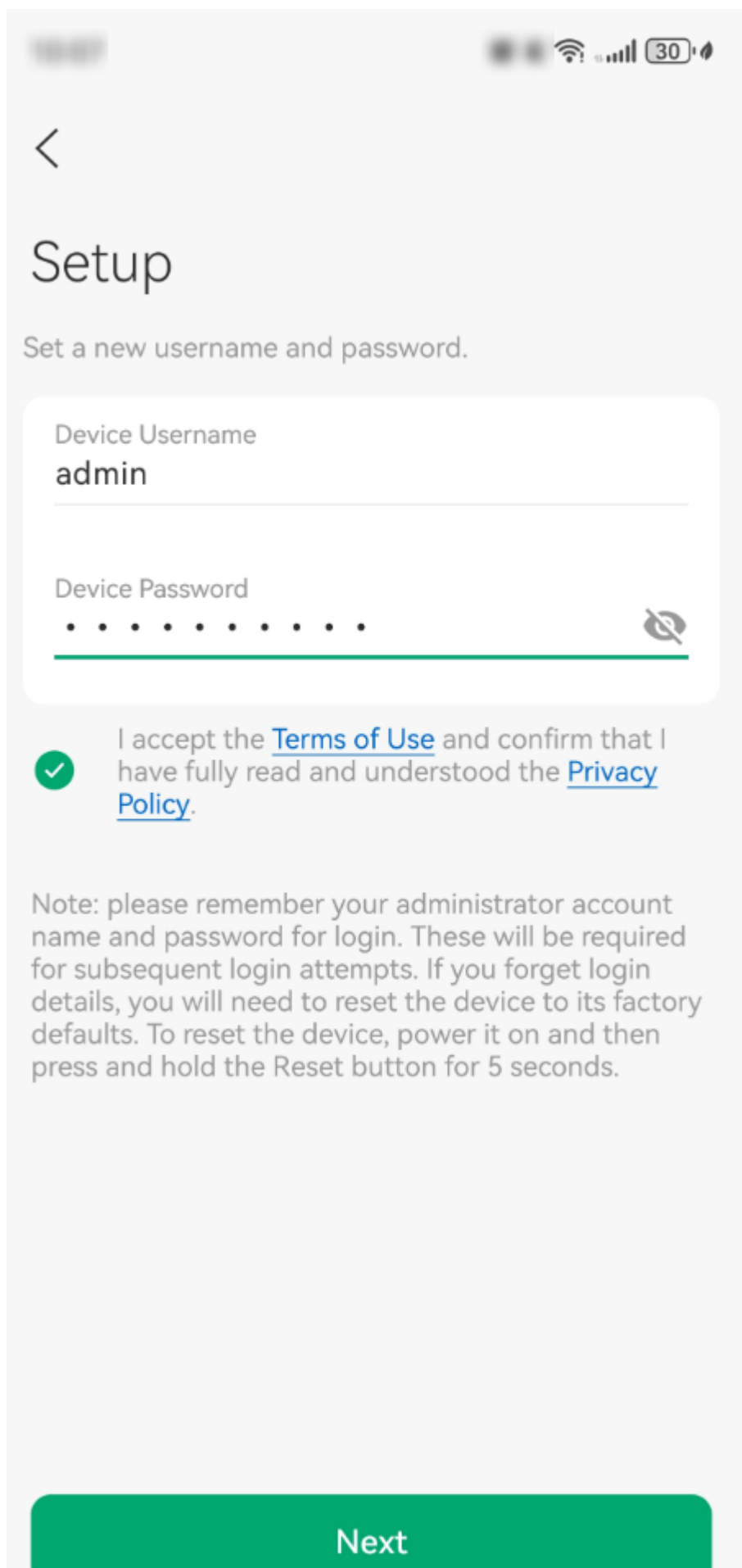
Tip: Place your router in an open space, away from large electrical appliances to minimize interference.



- 2 Signal Calibration

Find the best signal location by checking the signal strength at different mounting positions and tilt angles after the quick setup is complete.





10:00

<

Setup

Set a new username and password.

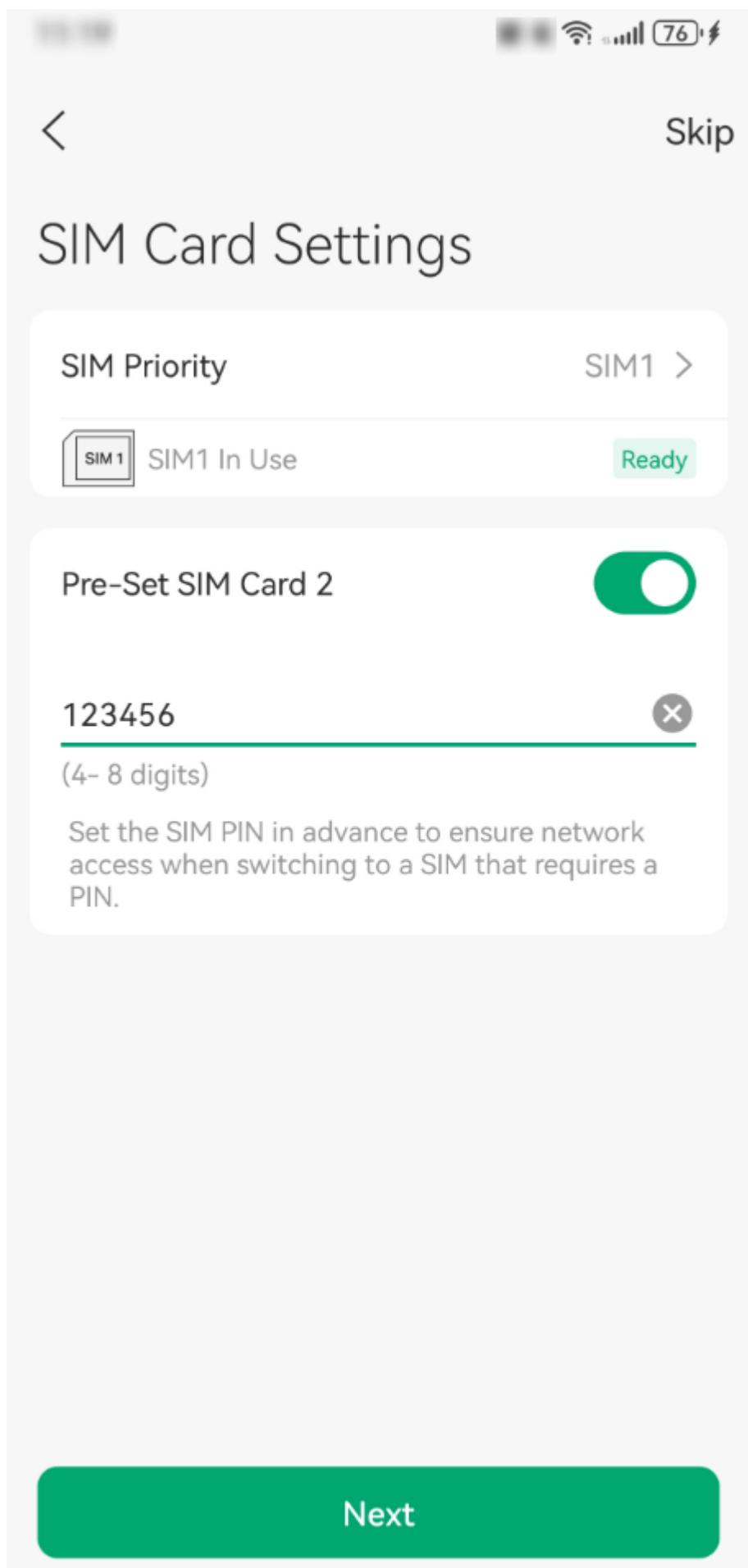
Device Username
admin

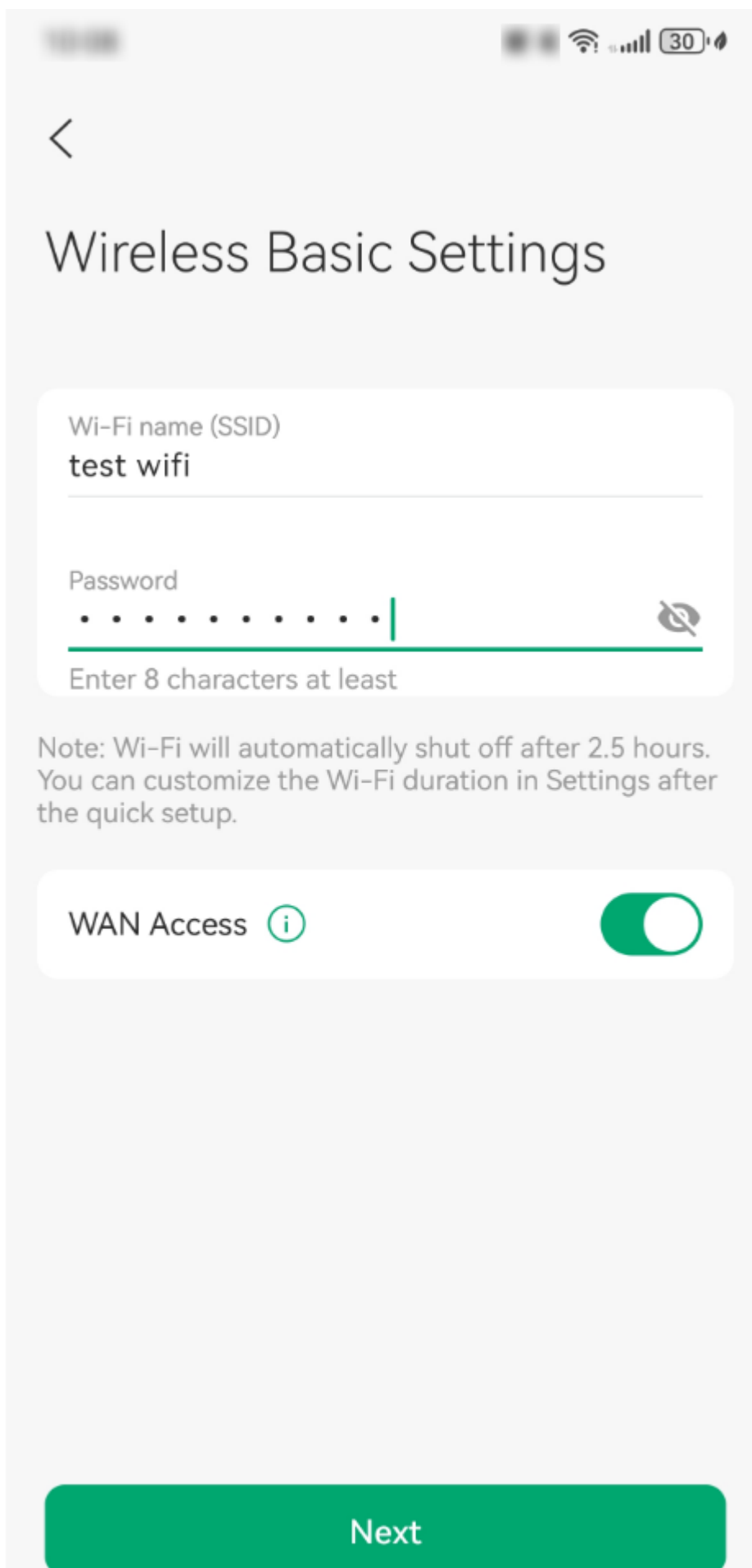
Device Password
• • • • • • • • • •

I accept the [Terms of Use](#) and confirm that I have fully read and understood the [Privacy Policy](#).

Note: please remember your administrator account name and password for login. These will be required for subsequent login attempts. If you forget login details, you will need to reset the device to its factory defaults. To reset the device, power it on and then press and hold the Reset button for 5 seconds.

Next






12:00


Wireless Basic Settings

Wi-Fi name (SSID)
test wifi

Password
..... | 

Enter 8 characters at least

Note: Wi-Fi will automatically shut off after 2.5 hours. You can customize the Wi-Fi duration in Settings after the quick setup.

WAN Access 

Next

Summary

Device Account

Username
admin

Password
Tplink123!

SIM Card Information

SIM Priority
SIM1

SIM Card Used
SIM1

SIM Card Status
Ready

Wireless Settings

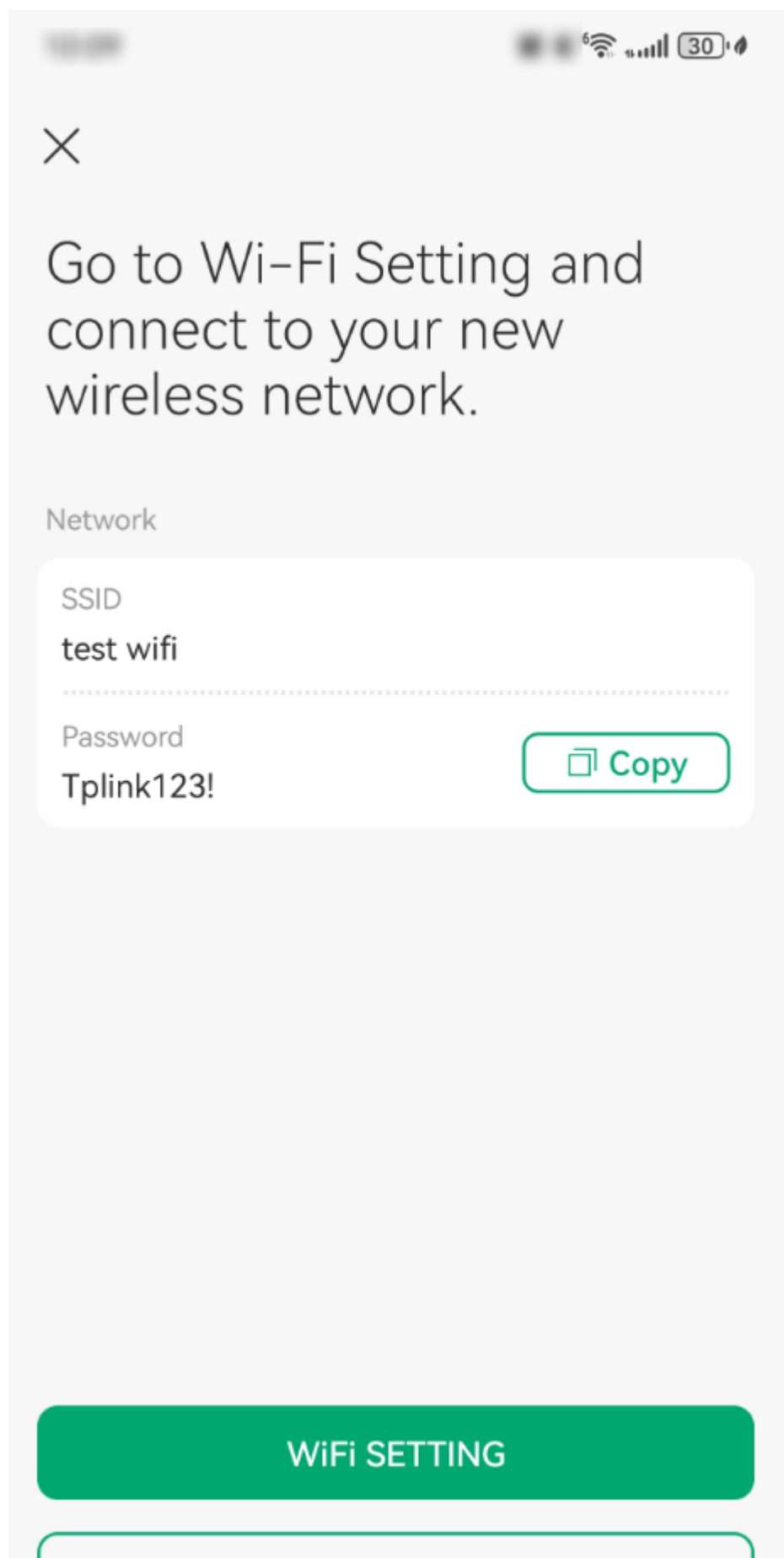
SSID Name
test wifi

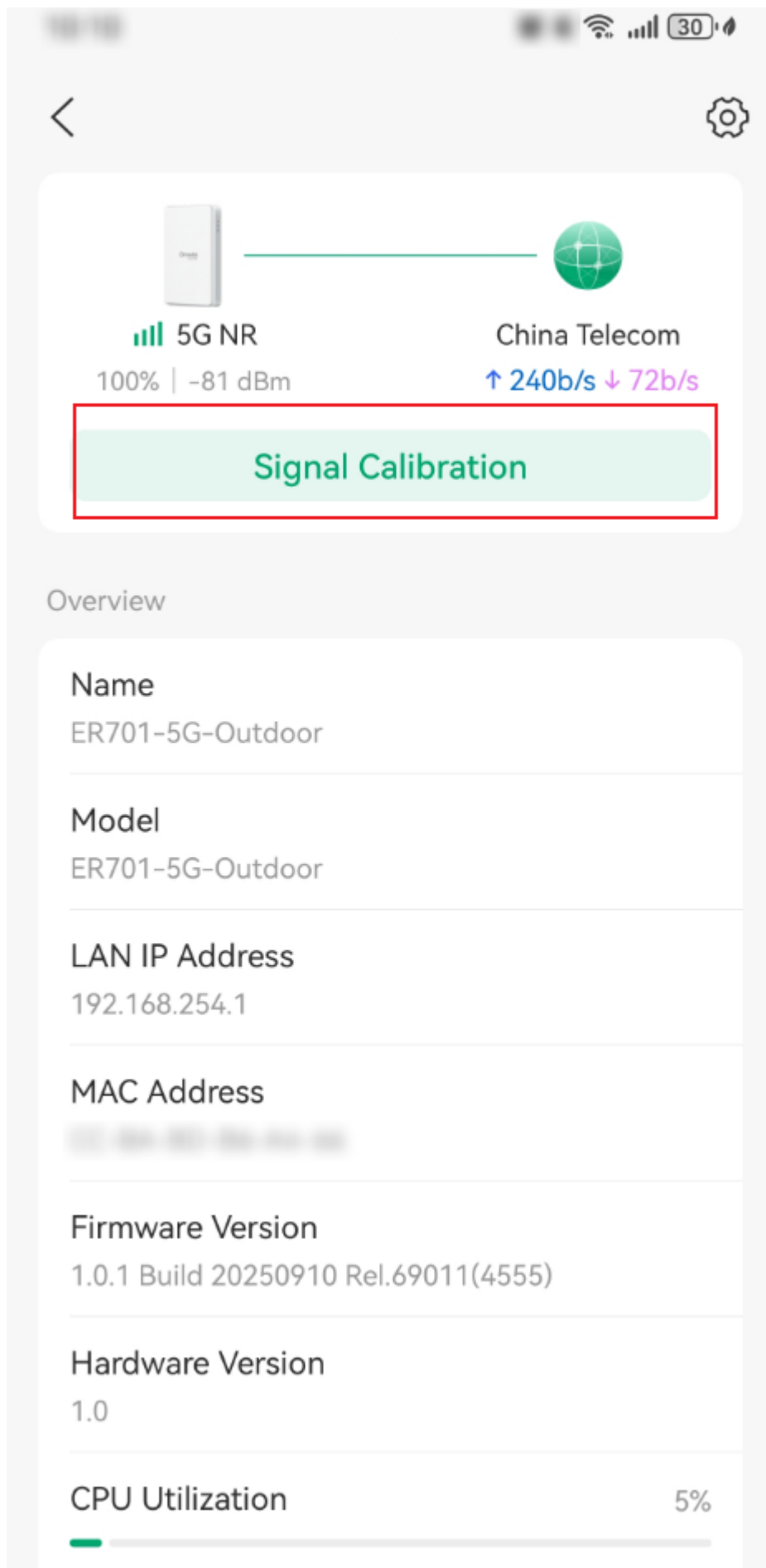
Password
Tplink123!

WAN Access

Confirm

and find the optimal location for installation where the signal is strongest.





Signal Calibration

The current signal strength is Good, indicating a suitable installation location for a stable network connection. Tap Mark Location to save the current installation location and angle.

Radio: 5G NR SS_SINR: 19.0dB

SS_RSRP: -83 dBm | **Great**

Mark Location

SS_RSRP: -83 dBm

Max: -81 dBm

SS_RSRQ: -11 dB

Max: -11 dB

(192.168.254.1) or use the default domain name (https://mobile.omada.net) to log in to the device's web management interface.

Omada
by tp-link
ER701-5G-Outdoor | Omada 5G Outdoor Gateway

Set an Account

Username:

Password:

Low
Medium
High

Confirm the Password:

Share Diagnostics & Usage Data: Enable

Note: please remember your administrator account name and password for login. These will be required for subsequent login attempts. If you forget your login details, you will need to reset the device to its factory defaults. To reset the device, power it on and then press and hold the Reset button for 5 seconds.

Next

Step 2. Set up the username and password for the device. Then click **Next** to continue.

Omada
by tp-link
ER701-5G-Outdoor | Omada 5G Outdoor Gateway

Set an Account

Username:

Password:

Low
Medium
High

Confirm the Password:

Share Diagnostics & Usage Data: Enable

Note: please remember your administrator account name and password for login. These will be required for subsequent login attempts. If you forget your login details, you will need to reset the device to its factory defaults. To reset the device, power it on and then press and hold the Reset button for 5 seconds.

Next

Step 3. The next page is the WAN Connection Setup page, as the ER701-5G-OD supports cellular WAN only. This is also the page for setting up the SIM card. There are two SIM card slots equipped on the device, but only one SIM card can work at the same time. On this page, you can configure the SIM card priority to decide which SIM card will be used first.

Omada
by tp-link
ER701-5G-Outdoor | Omada 5G Outdoor Gateway

Configure Internet

..... [1111]

After inserting a compatible SIM card, the configuration profile will be automatically prepared. Typically, automatic configuration will allow you to connect to the internet. You can also configure it manually.

ER701-5G-Outdoor | Omada 5G Outdoor Gateway

SIM1

Profile Select: CMCC(default:1) ▼

Profile Name: CMCC

PDP Type: IPv4 & IPv6

APN Type: Static

APN: cmnet

Username: guest

Password: *****

Authentication Type: CHAP

SIM2

SIM Card Status: Not Activated

Pre-set PIN:

PIN: *****

Save

Note: Set the SIM PIN in advance to ensure network access when switching to a SIM that requires a PIN.

IP Passthrough:

IP Passthrough Mode: Dynamic ▼

Note: Changing the IP Passthrough settings may affect the network setting of client devices.

Back Next

Note: Set the SIM PIN in advance to ensure network access when switching to a SIM that requires a PIN.

Step 4. The next page allows you to test the Cellular WAN connection after setting up the SIM cards. Click **Test Internet Connection** to start the test and check the result. Click **Next** to proceed to the next page.

ER701-5G-Outdoor | Omada 5G Outdoor Gateway

WAN Connection Type | Wireless Settings

Set an Account | Connection Test | Summary

Click **Test Internet Connection** below, then click Next.

Test Internet Connection

Connect to Omada Controller

Back Next

Omada
by TP-LINKER701-5G-Outdoor | Omada 5G Outdoor Gateway

WAN Connection Type

Wireless Settings



Set an Account Connection Test Summary

Click **Test Internet Connection** below, then click Next.

Test Internet Connection

Finish

Congratulations! The Router is now connecting you to the Internet. For detail settings, please click other menus if necessary.

WAN Port	Connection Type	WAN IP	Check Network Connection Result
 Cellular WAN	Cellular		✔ Connected

Connect to Omada Controller

Step 5. The next page is the Wireless Settings page. As introduced, the SSID on ER701-5G-OD is 2.4Ghz Wi-Fi 4 with a maximum throughput of 150Mbps, designed for the convenience of configuring this device, not recommended to be used for Internet access. You could choose to hide it or turn it off automatically after a while. Click **Next** to proceed to the next page.

Omada
by TP-LINKER701-5G-Outdoor | Omada 5G Outdoor Gateway

WAN Connection Type

Wireless Settings

Set an Account Connection Test Summary

Wireless Settings

Network Name(SSID): Hide SSID Allow WAN Access

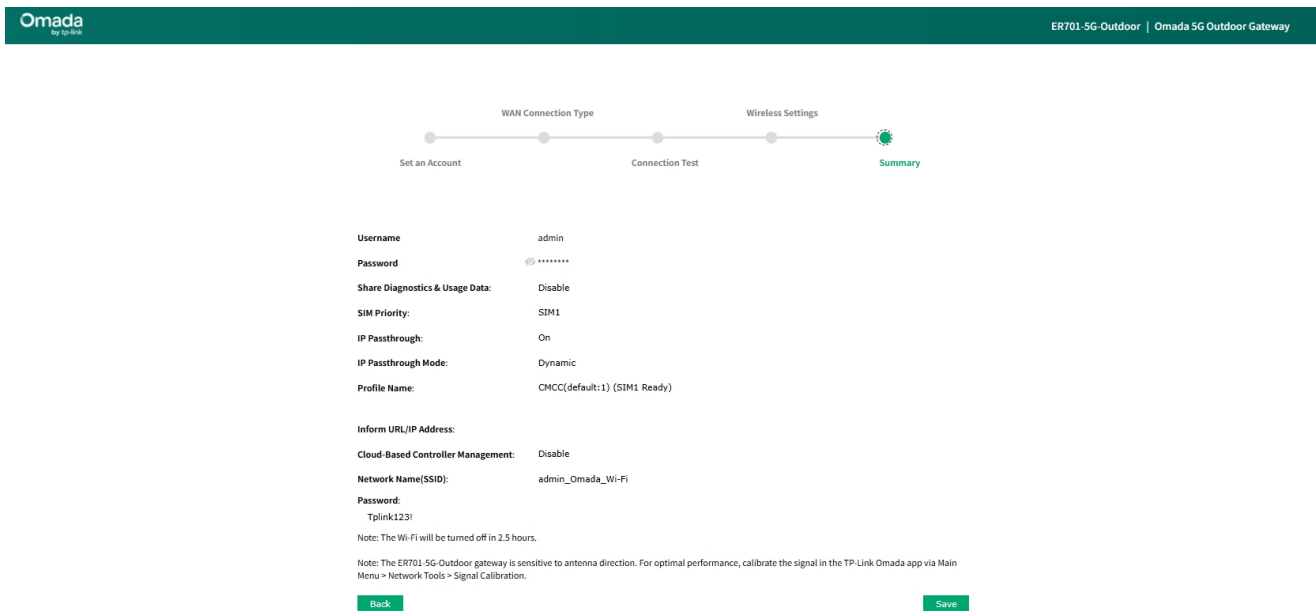
Password:

Auto Switch Off Wi-Fi:

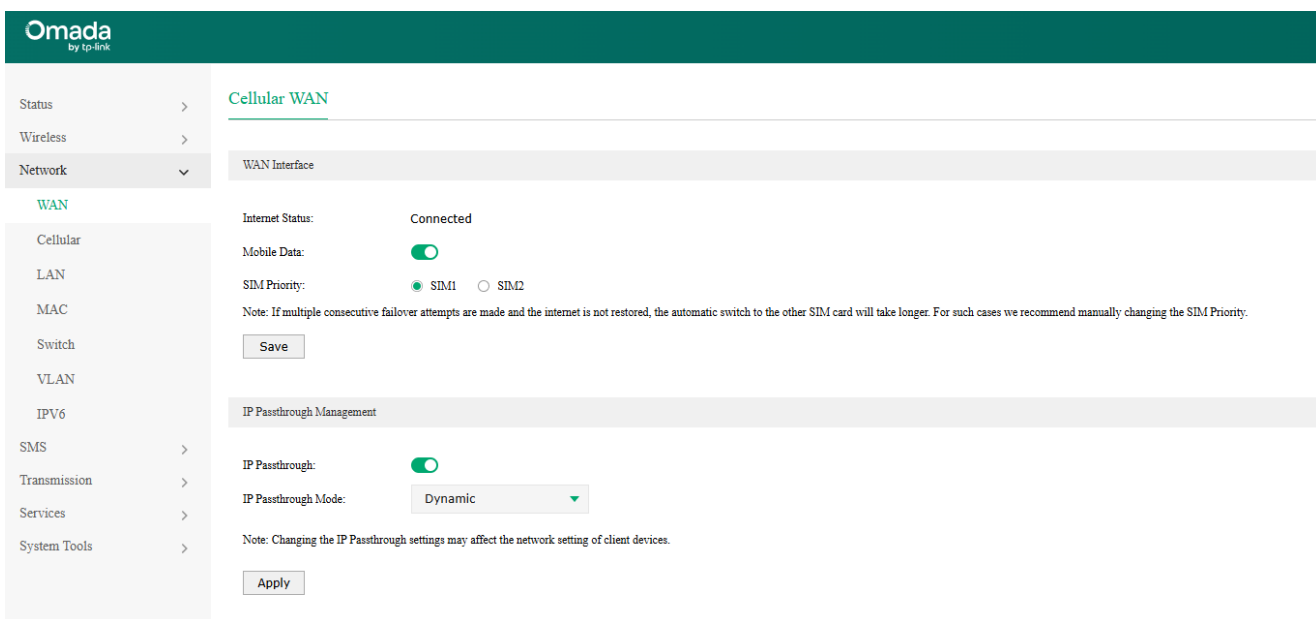
Auto Switch Off Wi-Fi Interval:

[Back](#)[Next](#)

Step 6. The final page is the summary page, where you can check all the configurations you have done in the previous steps. If everything looks good, click **Save** to finish the setup process, and click **Back** to return to any previous steps to change the configuration.



Step 7. After finishing the quick setup process and entering the management UI, the WAN configuration could be changed at **Network > WAN**, including the SIM card priority, SIM card profile, Data Roaming status, Mobile Data status, and so on.



Configuration in Controller Mode

This section will introduce the WAN configuration when it is managed by the Omada Controller.

Step 1. Insert the SIM card and power the ER701-5G-OD using a passive PoE adapter or PoE switch.

Step 2. Adopt the device to the Omada Controller. For the adoption process, please refer to the following FAQs:

[How to discover and manage 5G ODU device via on-premise controller](#)

[How to discover and manage 5G ODU device via Omada Central](#)

Step 3. After adopting, the SIM card inserted should be able to auto dial up if it is compatible with the device. Follow the next steps for additional configuration on Cellular WAN.

If you are using the device in IPPT mode, the configuration will be available on the device configuration page. Go to **Devices**, click on the ER701-5G-OD, click **Manage Device** >

Config > **Internet**.

If you are using the device in router mode, the configuration will be available in the site settings page. Go to **Network Config** > **Network Settings** > **Internet**.

On the Internet page of ER701-5G-OD, the SIM card priority, SIM card profile, Data Roaming

WAN Mode

Gateway Model

ER701-5G-Outdoor v1.0

Online Detection Interval

custom

Custom Time

10

Seconds

(1-3600)

Edit Cellular WAN

Description

(Optional)

Mobile Data



SIM Priority

SIM1

SIM2

SIM1 Dial-up Settings

APN Profile

Auto

Manual

Data Roaming



Network Mode

5G/4G/3G

Dial-up

100

(100 - 3552s)

SIM2 Dial-up Settings

APN Profile

Auto

Manual

Data Roaming



Network Mode

5G/4G/3G

Dial-up

100

(100 - 3552s)

Conclusion

mode.

Get to know more details of each function and configuration please go to [Download Center](#) to download the manual of your product.

โปรดให้คะแนนเอกสารนี้



เอกสารที่เกี่ยวข้อง

How to configure Virtual WAN on Omada Gateway

คู่มือการกำหนดค่า

🕒 06-25-2025 👁 23102

How to Configure SD-WAN via Omada Controller v6.2

คู่มือการกำหนดค่า

🕒 04-02-2026 👁 11424

How to configure WAN Mode on the Omada Gateway via Omada Controller

คู่มือการกำหนดค่า

🕒 06-26-2024 👁 32299

How to Configure SD-WAN via Omada Controller v5.15.20

คู่มือการกำหนดค่า

🕒 07-22-2025 👁 24555

Troubleshooting Guide for Common Issues with 5G ODU

คู่มือการแก้ไขปัญหา

🕒 05-07-2025 👁 14627

ติดตามข้อมูลข่าวสาร

ที่อยู่อีเมล

[ลงทะเบียน](#)

ติดตามเรา

About

Press

Partners

Learning Center

ไทย / ไทย

