

T Mobile™

User Guide

**TMO-G4SE
5G Gateway**



Release 1.0.0

Manufacturer	Sercomm Corporation 8F, 3-1 YuanQu St., Nankang Taipei 115, Taiwan
Import from	Sercomm Corporation
Distributor	T-Mobile, Inc.

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Safety Guidelines

Potential Equipment Damage

Follow these recommendations to protect yourself and the Product from harm:

- Use the Product only in upright position as shown in the Quick Start Guide
- Do not insert any sharp object into the openings of the Product
- Do not put the Product near a heat source
- Avoid placing the Product in direct sunlight
- Do not put the Product in damp or wet locations; for example, near a bathtub, washbowl, kitchen sink or laundry tub, in a wet basement, or near a swimming pool. Do not spill any liquid on the Product
- Do not touch the Product or its power adapter or cord with wet hands
- Do not place the Product on an unstable surface or support
- Do not place anything on top of the Product
- Do not use liquid or aerosol cleaners; unplug the Product and use a soft, dry cloth for cleaning
- When connecting a PC or other electronic device to the Product, make sure you use the right cables and connect the device to the right port of the Product
- Incorrect connections may damage the device and/or the Product
- Do not open or try to open the Product
- Opening or removing covers can expose you to dangerous high voltage points or other risks
- Do not attempt to access, manipulate, insert foreign objects into, remanufacture, or immerse or otherwise expose it to water
- Do apply care to avoid accidental drops along with the Product
- If the T-Mobile 5G Gateway is dropped—especially on a hard surface—or in the case of suspected damage, contact your nearest T-Mobile service center for inspection

Risk of Electric Shock or Fire

Follow these guidelines when using the T-Mobile 5G Gateway:

- Connect the Product power adapter or cord to the right supply voltage (120V AC in USA)
- Pay attention to the power load of the electrical outlet and possible extension cord
- An overburdened power outlet or damaged cords and plugs may cause electric shock or fire
- Check the power cords regularly. If you find any damage, replace the cord immediately
- Do not connect the plug into an extension cord, receptacle, or other outlet unless the plug can be fully inserted with no part of the blades exposed
- Leave adequate space for heat dissipation to avoid any damage caused by overheating the Product

- Do not cover the Product or its ventilation holes. Blocking the ventilation holes may cause fire
- Use the power adapter provided with your Product and do not fasten the power cable to building surfaces
- Ensure the cable can move freely. Do not place heavy objects on the cable
- Do not use the Product outside, and make sure all the connections are indoors
- Do not install, use, or service this Product during a thunderstorm
- There is a remote risk of electric shock from lightning
- The standby power consumption of the Product is 4.5W

Introduction

This document explains how to operate the T-Mobile 5G Gateway at home using visual cues to achieve the best placement and performance.

NOTE

This document is a supplement to the Quick Start Guide and T-Mobile Internet mobile app. Use the Quick Start Guide to get up and running quickly.

The contents of this guide are subject to change without notice.

Getting to Know Your T-Mobile 5G Gateway

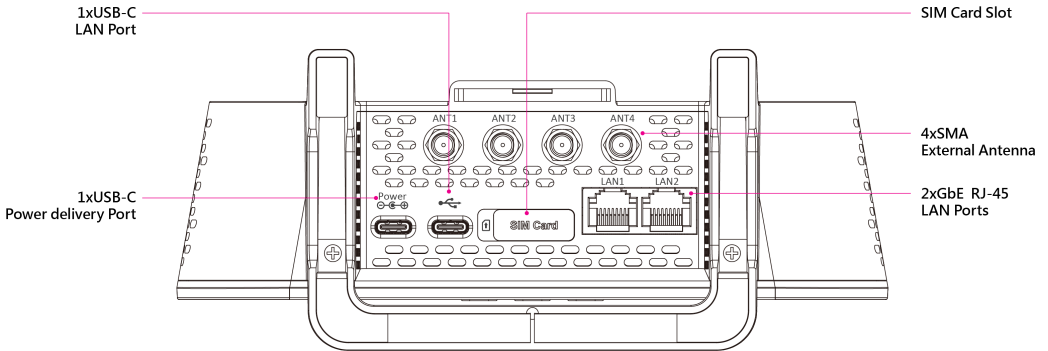
You will find the following items in the box:

- Gateway
- Power adapter
- Quick Start Guide
- T-Mobile Terms and Conditions
- Safety and Regulatory Notice

The gateway offers 4G/LTE or 5G/NR WAN mobile network connectivity by way of four wide band OMNI antennas that supports all LTE/5G bands. It functions as the connection point between the WAN outside your home and the LAN inside your home.

Physical Interfaces

The gateway's physical interfaces include those shown in the diagram.



Setting up the T-Mobile 5G Gateway

Recommended Setup: Use the Mobile App

Using the Quick Start Guide and the T-Mobile Internet mobile app provides the easiest setup experience. The T-Mobile Internet mobile app can be downloaded from either Google Play or the App Store.

NOTE

The first time you access your gateway, the “How to navigate this interface” displays on the LCD panel. Select “OK” to continue the start up.

Download and install Mobile app using your smart phone, then the Mobile app establishes communication and connects to the gateway.

Manual Setup: Identify An Ideal Location

You will start by identifying the ideal location for your gateway — that location will meet the following criteria:

- Near a window where the signal strength is strongest
- In an open space away from:
 - Walls or obstructions
 - Heavy-duty appliances or electronics such as microwave ovens and baby monitors
 - Metal fixtures, enclosures, cabinets, reinforced concrete, or pipes
- Near a power outlet
- On an upper floor of the home or at least 6 feet off the floor

Connecting Power to the T-Mobile 5G Gateway

- Place the gateway on a flat surface, such as a tabletop or similar; close to a window and near an electrical outlet
- Minimize the number of obstructions as much as possible
- Connect the gateway's USB Type-C power cable to its Power port, then plug the other end of the power cable into a grounded electrical outlet
- The USB Type-C power cable must be capable of supporting 100–240V (volts) AC adapter, 50–60Hz frequency and 3A of current at DC 15V



Starting the T-Mobile 5G Gateway

After the gateway is connected to a power source, the LCD screen displays an animated T-Mobile logo that indicates the gateway is starting up.

Four small dots displayed on the LCD panel indicates available screens. Take a moment to browse these screens to see what information is available. For more information about the LCD screen display, refer to the section “Understanding the LCD” on page 19.

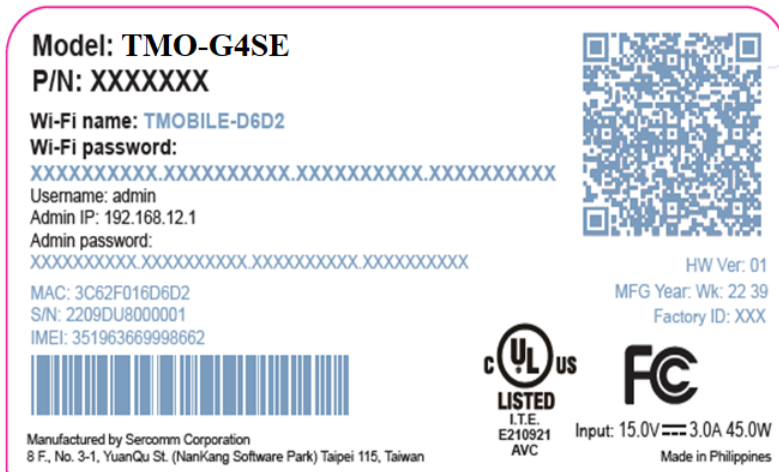
The start up sequence is complete when the LCD shows:

- Connection
- Devices
- Messages
- Language

Connecting Devices

Connecting Wi-Fi Devices

Connect your wireless devices to your network using the Wi-Fi SSID (Wi-Fi name) and Wi-Fi Key (Wi-Fi password), which are found on the gateway’s rear panel. Here is an example of the label:

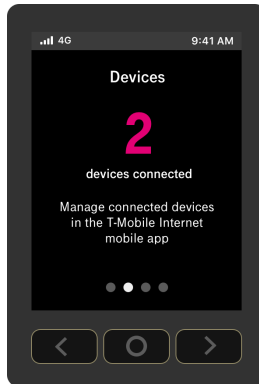


Connecting Ethernet Devices

The gateway has two (2) Ethernet LAN ports. Use an Ethernet cable to connect devices that don’t have Wi-Fi adapters or capabilities.

Viewing Connected Devices

The Devices LCD screen on the front of the gateway shows the number of devices currently connected to the network by way of either Wi-Fi or Ethernet.



To view how many devices are connected:

1. Observe the LCD Connection screen
2. Press the right arrow on the LCD panel to display the Devices screen

Accessing Your Web GUI (Graphical User Interface)

NOTE

You can configure the gateway and any connected client devices via the T-Mobile Internet mobile app on a smartphone.

Ensure the Local Area Connection setting on your PC, laptop, smart phone, or tablet is configured to obtain an IP address automatically.

On your device, open a web browser, and enter <http://192.168.12.1>

NOTE

If you are unable to access the GUI at the above address, please contact customer support.

Home Screen

You should now see the dashboard screen, which provides network connection status and information about the gateway.

Home English

Connection status

Devices — Wi-Fi gateway — Internet

Connection quality

Excellent
Very Good
Good
Weak
Poor

Gateway

Firmware version	84631
UI version	v1.0.1
Running Time	7d 21h 7m 23s
Serial Number	GVH123456789

Wi-Fi networks

Login to view and manage WiFi networks.


Administrator Password

[Where is my password?](#)

Log in

Mobile app

From setup to monitoring and parental controls, you'll love how easy it is to use the T-Mobile Internet app. Download today.



Scan with phone to download app

[Learn more](#)

Questions? Call T-Mobile Customer Service at 1-844-275-9310

© T-Mobile, Inc. [Privacy Policy](#) [Terms of Service](#)

The Home screen contains five sections: internet connection status, connection quality of cellular signal strength, gateway information, Wi-Fi networks settings, and the QR code of T-Mobile Internet mobile app.

- Connection status: shows network status of the connected devices, the gateway, and the cellular network connection
- Connection quality: cellular signal strength is represented by number of bars
- Gateway information
 - Firmware version: variable
 - UI version: variable
 - Running time: how long it has been since the gateway's last reset/power-cycle
 - Serial number: variable

- Wi-Fi networks settings: gives you a way to manage and configure wireless settings on the 2.4GHz and 5GHz networks
- T-Mobile Internet mobile app: scanning the QR code with your smart phone for the easiest setup experience

NOTE

The advanced settings are not available with this version release of the web GUI.

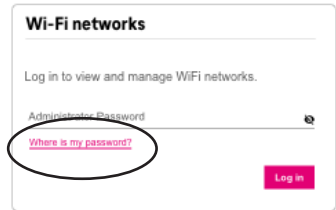
Language Selection

From the GUI's top-right corner of the screen, select your preferred language, English or Español, from the dropdown menu for user interface language.

Wi-Fi Networks Screen

Accessing the **Wi-Fi networks** from the web GUI's main menu gives you a way to manage and configure wireless settings on your Wi-Fi networks.

First you must login using admin credentials (password). Click on **Where is my password?** on the screen to show your default administrator password located on the gateway label.



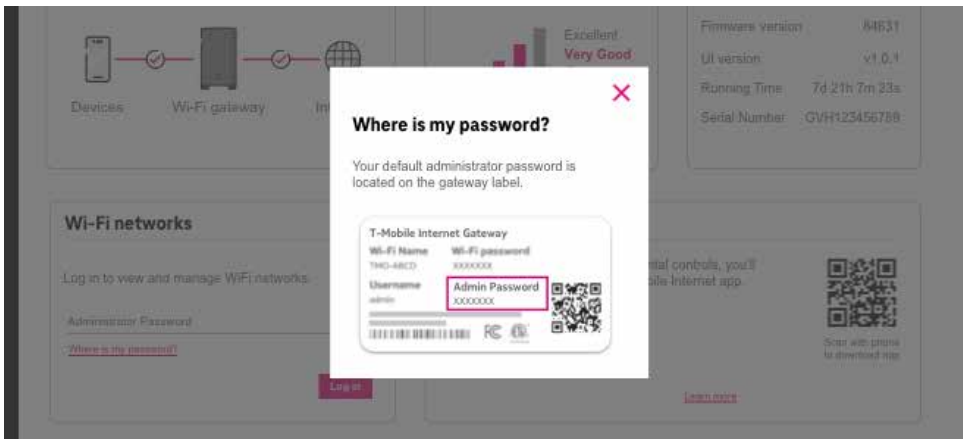
Wi-Fi networks

Log in to view and manage WiFi networks.

Administrator Password

[Where is my password?](#)

Log in



Where is my password?

Your default administrator password is located on the gateway label.

T-Mobile Internet Gateway

Wi-Fi Name: XXXXXXXX

T-Mobile ID: XXXXXXXX

Username: Admin Password

XXXXXXXX

QR Code

Provide administrator password and click **Log in**.

[English](#) [Log out](#)

Home

Connection status

Devices Wi-Fi gateway Internet

Connection quality

Excellent
Very Good
 Good
 Weak
 Poor

Gateway

Firmware version	84631
UI version	v1.0.1
Running Time	7d 21h 7m 23s
Serial Number	GVH123456789

Wi-Fi networks

T-Mobile Gateway Wi-Fi

[Manage Wi-Fi Networks](#)

Mobile app

From setup to monitoring and parental controls, you'll love how easy it is to use the T-Mobile Internet app. Download today.

Scan with phone to download app

[Learn more](#)

Clicking [Manage Wi-Fi Networks](#) from the [Wi-Fi networks](#) menu gives you a way to manage and configure Wi-Fi settings on your networks.

[English](#) [Log out](#)

Wi-Fi Networks

Change your Wi-Fi network names and passwords.

Your Networks

How it works

You may configure your T-Mobile gateway with a single Wi-Fi network, or two separate Wi-Fi networks.

A. Combined / Automatic (Recommended)
 Connected devices will automatically use the radio frequency (2.4 GHz or 5 GHz) which provides the best Wi-Fi connection. This is the recommended configuration for most customers.

B. Separate Networks
 With this option, you will have 2 Wi-Fi networks: one which operates at the 2.4 GHz radio frequency, and the other which operates at the 5 GHz radio frequency. Try separate networks if you have any devices that are not connecting to the standard combined network.

[Learn more](#) about the difference between 2.4 GHz and 5 GHz Wi-Fi networks.

Combined / Automatic (Recommended)

Network name
T-Mobile Gateway Wi-Fi

Frequency 2.4 GHz, 5 GHz

Password

Must be 8 characters or more

Separate Networks

Network name

Frequency 2.4 GHz

Password

Must be 8 characters or more

Network name

Frequency 5 GHz

Password

Must be 8 characters or more

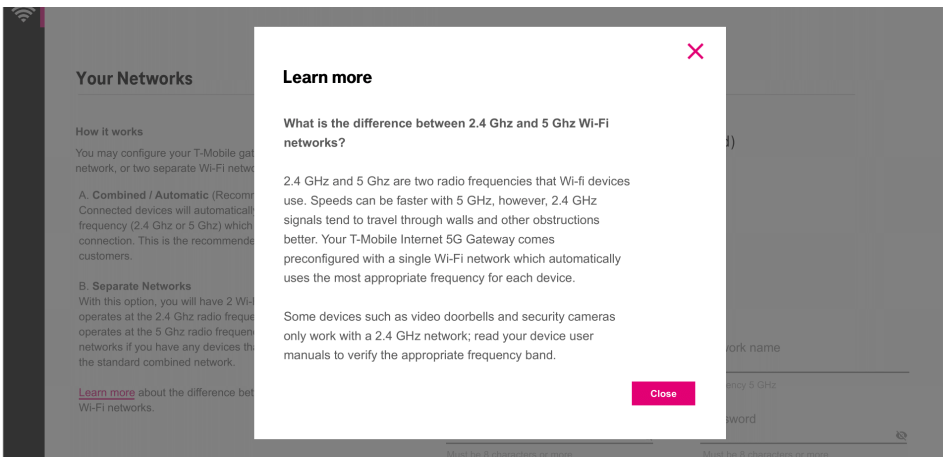
Save changes

Cancel

The **Wi-Fi Networks** screen contains the following options:

- **Combined/Automatic (Recommended)**: provides the best Wi-Fi connection to the connected devices with automatic selection of the radio frequency (2.4 GHz or 5 GHz). Your T-Mobile mesh network has the single Wi-Fi network enabled by default and this is recommended for most users
- **Separate Networks**: you also can configure the following SSID-specific settings for different types of Wi-Fi devices
 - 2.4 GHz radio frequency
 - 5 GHz radio frequency

Click **Learn more** to see detailed information about the use of appropriate frequency for the Wi-Fi devices on your network.






To create a new Wi-Fi network:

1. The 2.4GHz and 5GHz options become available by selecting **Separate Networks**
2. Configure the following Wi-Fi settings for the new network

Setting	Options
Network Name	Enter SSID (Service Set Identifier) name.
Password	Enter a Wi-Fi password. You can click the eye icon to view the password.

NOTE

The gateway automatically steers client devices to the best band and channel combination for most situations.

English Log out

Wi-Fi Networks

Change your Wi-Fi network names and passwords.

Your Networks

How it works
You may configure your T-Mobile gateway with a single Wi-Fi network, or two separate Wi-Fi networks.

A. Combined / Automatic (Recommended)
Connected devices will automatically use the radio frequency (2.4 GHz or 5 GHz) which provides the best Wi-Fi connection. This is the recommended configuration for most customers.

B. Separate Networks
With this option, you will have 2 Wi-Fi networks: one which operates at the 2.4 GHz radio frequency, and the other which operates at the 5 GHz radio frequency. Try separate networks if you have any devices that are not connecting to the standard combined network.

[Learn more](#) about the difference between 2.4 GHz and 5 GHz Wi-Fi networks.

Combined / Automatic (Recommended)

Network name
T-Mobile Gateway Wi-Fi
Frequency 2.4 GHz, 5 GHz

Password

Must be 8 characters or more

Separate Networks

Network name
T-Mobile Gateway Wi-Fi 2.4 GHz
Frequency 2.4 GHz




Password

Must be 8 characters or more

Network name
Please add a network name
Frequency 5 GHz

Password
Please add a password
Must be 8 characters or more

Save Changes
Cancel

English Log out

Wi-Fi Networks

Change your Wi-Fi network names and passwords.

Your Networks

How it works
You may configure your T-Mobile gateway with a single Wi-Fi network, or two separate Wi-Fi networks.

A. Combined / Automatic (Recommended)
Connected devices will automatically use the radio frequency (2.4 GHz or 5 GHz) which provides the best Wi-Fi connection. This is the recommended configuration for most customers.

B. Separate Networks
With this option, you will have 2 Wi-Fi networks: one which operates at the 2.4 GHz radio frequency, and the other which operates at the 5 GHz radio frequency. Try separate networks if you have any devices that are not connecting to the standard combined network.

[Learn more](#) about the difference between 2.4 GHz and 5 GHz Wi-Fi networks.

Combined / Automatic (Recommended)

Network name
T-Mobile Gateway Wi-Fi
Frequency 2.4 GHz, 5 GHz

Password

Must be 8 characters or more

Separate Networks

Network name
T-Mobile Gateway Wi-Fi 2.4 GHz
Frequency 2.4 GHz

Password

Must be 8 characters or more

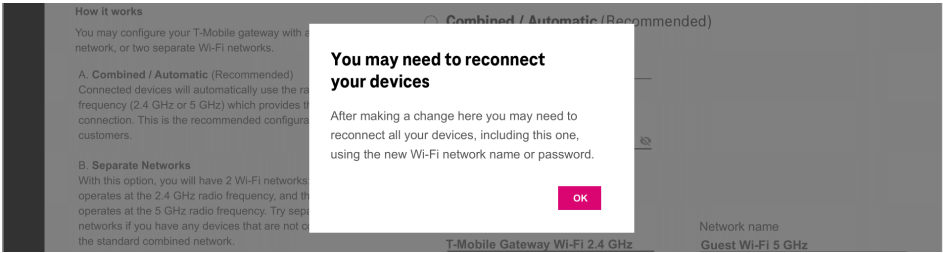
Network name
T-Mobile Gateway Wi-Fi 5 GHz
Frequency 5 GHz

Password

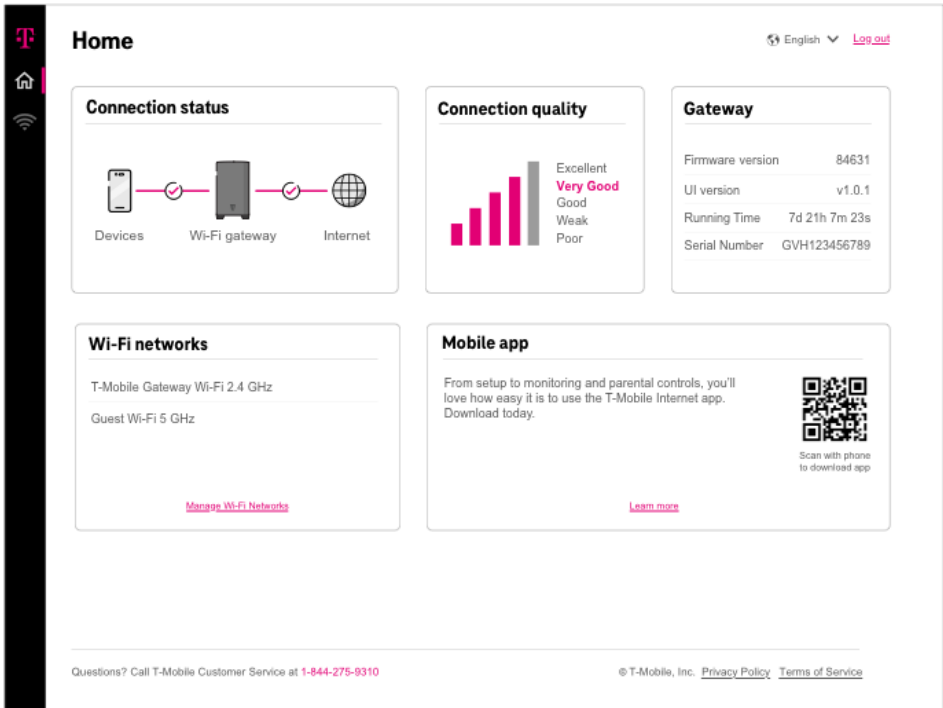
Must be 8 characters or more

Save changes
Cancel

3. Click **Save Changes** to save the settings



4. Click **OK** to finish the Wi-Fi network configuration and the Home screen will be displayed



Replacing the SIM Card

The gateway comes with a pre-installed SIM card. You can replace the SIM card by pressing the card into the card slot.

Before replacing the SIM card, please read the following safety information.



Danger 1: Hazardous electrical voltages and currents can cause serious physical harm or death. Always use insulated tools and follow proper safety precautions when connecting or disconnecting power circuits.

Danger 2: Ensure the gateway's power supply is unplugged from the power strip or wall outlet before proceeding.

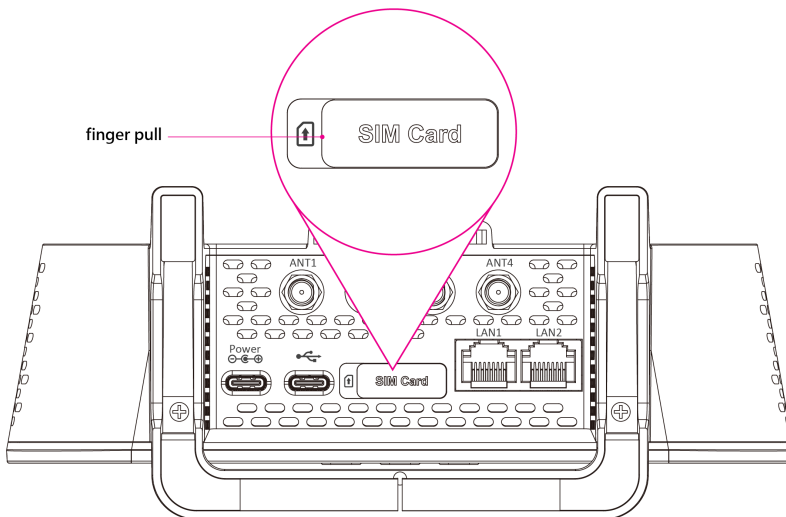


Caution: Keep indoor devices out of direct sunlight. Prolonged exposure to direct sunlight can damage the device.

Refer to the section "Technical Specifications" for the gateway's operating temperature ranges.

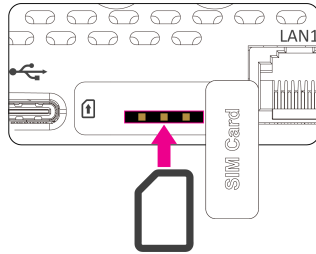
Access the SIM card from the backside of the gateway.

1. Power off the gateway by removing the power cable from the gateway and from the electrical outlet
2. Remove any Ethernet cables connected to the gateway's LAN ports (LAN1 and LAN 2)
3. Use the finger pull to open the SIM door



4. The SIM card socket supports push-in and push-out installation

5. With the SIM door open, press the pre-installed SIM card into the slot and the SIM card pops out
6. Carefully remove the pre-installed SIM card
7. Insert and press the new SIM card into the slot



8. Be sure the SIM card clicks into place to ensure that it is properly installed
9. Close the cover of the SIM card slot and ensure the cover is securely closed on the SIM door

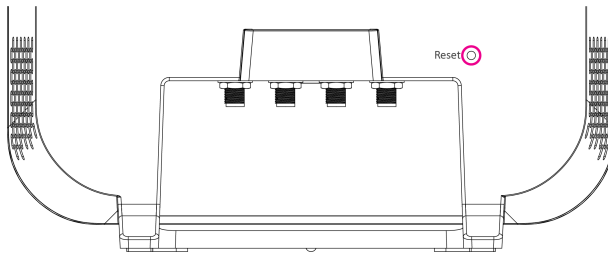
Resetting the T-Mobile 5G Gateway

Resetting the T-Mobile 5G Gateway to factory default deletes all configuration changes made since setup.

Using the Reset Port

You can reset the gateway using a paperclip and the Reset port, which is located on the device's backside.

1. Press-and-hold a paperclip in the Reset port for 5 seconds



2. Withdraw the paperclip. LCD shows:
 - Factory reset in progress
 - T-Mobile animated logo
 - Power up animation
3. On the LCD, press **OK** on the LCD panel and you will see the **Connection** screen

Troubleshooting

No Signal

This LCD alert indicates there is no network signal, which could mean local cellular equipment is down for any number of reasons, or the gateway may need to be re-positioned.

If the connection does not improve in a reasonable amount of time, you can contact T-Mobile customer service or refer to the section “Manual Setup: Identify An Ideal Location”.

Prevent Overheating

Make sure that obstacles never obstruct airflow vents on the top or bottom of the gateway’s enclosure. Allow at least 100mm/4in clearance on all sides of the enclosure. Ensure the gateway is at least 3 feet from baseboard heaters.

If the gateway feels hot to touch, unplug it immediately and let the device cool before plugging it in again.

T-Mobile 5G Gateway Does Not Start

If the gateway does not start up, verify the provided power cord is connected to an outlet. If the gateway is connected to an outlet and power still does not start, contact T-Mobile technical support.

Poor Internet Experience

If you feel your overall internet experience is poor, try repositioning the gateway; refer to the section “Manual Setup: Identify An Ideal Location”.

Forget Your Admin Password?

If you configure a custom admin password and forget it, use the password reset function found within the T-Mobile Internet mobile app to reset the password to factory default.

Understanding the LCD

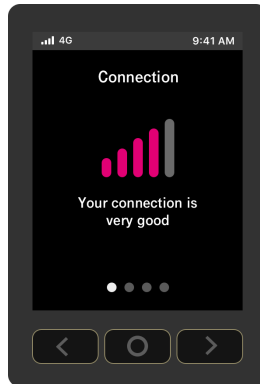
The gateway’s LCD is located on front of the device. The LCD serves as a dashboard where you can quickly obtain information of the following types:

- Connection
- Devices
- Language Settings
- Messages

Press left or right arrow (< or >) on the LCD panel with your finger to move between screens. The position of the illuminated dot on the bottom of the screen indicates where you are in the screen sequence.

The **Connection** screen is the first displayed after a successful start up sequence.

Connection

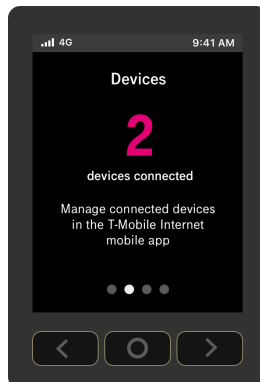


Like your phone, the gateway displays up to five bars on its Connection screen, indicating signal strength.

The number of bars you see represents the strength of the gateway's current connection to the cellular network.

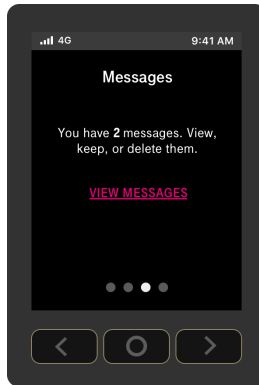
An X indicates the gateway is not connected to the cellular network.

Devices



The Devices screen indicates how many devices are currently connected to the gateway. This is true for both wireless and wired devices.

Messages

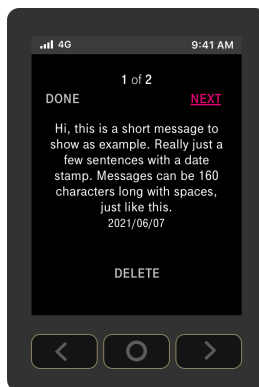


These messages come from the T-Mobile network and may provide outage information or other important updates.

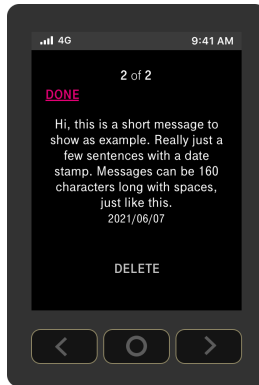
The Messages screen allows you to view the message contents by pressing < and > to scroll between messages.

To delete a message:

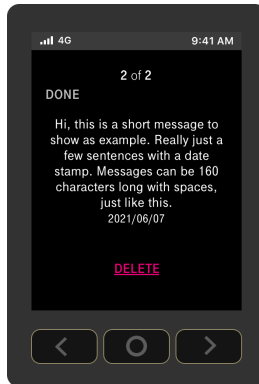
1. Press **O** (OK) on the panel to select **VIEW MESSAGES** and view unread messages
2. Select **NEXT** and read next message



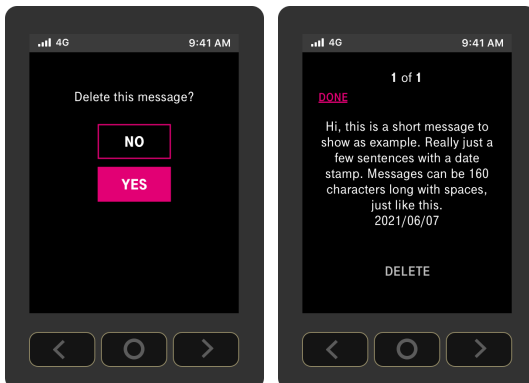
3. Select **DONE** when you read all messages



4. Select **DELETE** to delete a message



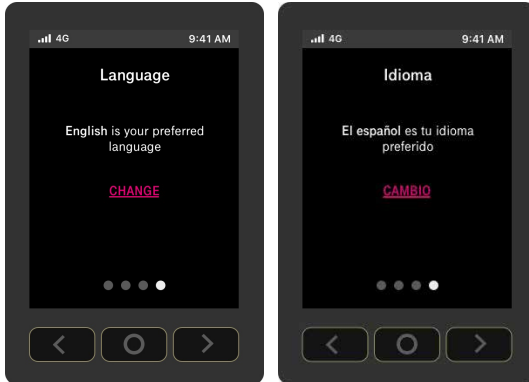
5. When prompted a message of asking you to confirm deletion, select **YES** to confirm



Language Settings

The gateway supports both English and Spanish on its LCD. You may change the language by doing:

1. From the Language screen, select **CHANGE**



2. From the Language screen, choose **English** or **Español**



3. Press **O** (OK) on the panel to set the language

Technical Specifications

Dimensions	191 (H) x 115 (W) x 120 (D) mm
Weight w/power adapter	1.097 kg 2.412 lbs
Operating environment	0 to 40 °C 32 to 104 °F
IoT / GPS	Bluetooth 5.1 GPS
Power adapter	AC
Power input	100 – 240V, 1.2A, 50/60Hz
Theoretical power consumption	45 W
Wi-Fi connectivity	11ax 4x4 2.4G 11ax 4x4 5G Seamless roaming
Security	WPA/WPA2/WPA3
Buttons	Reset (recessed switch) Arrow Keys (Left & Right) Enter (OK)
Display	TFT LCD Non-Touch Panel 2.4-Inch 240x320 Resolution
Mobile Band	5G NR: n25, n41, n66, n71, n77, n48 4G LTE: B2, B4, B5, B12, B41, B66, B71, B48
Physical Interfaces	GE LAN (Yellow) SIM Card Socket (4FF Only) USB Type C x 1 (Regular Power Source) USB Type C x 1 (Data and other USB Port Purpose)

Terms and Conditions

t-mobile.com/responsibility/legal/terms-and-conditions

Privacy Policy

t-mobile.com/privacy-center/our-practices/privacy-policy

Customer Support

24/7 Tech Support Line: 1-844-275-9310

Metro Support Line: 1-888-8Metro8



5G GATEWAY SAFETY AND REGULATORY INFORMATION



SAFETY GUIDELINES

ALWAYS READ THE T-MOBILE 5G GATEWAY QUICK START GUIDE BEFORE SET UP OR USE OF THE PRODUCT. IT IS YOUR RESPONSIBILITY TO FAMILIARIZE YOURSELF WITH THE PRODUCT USER GUIDES AND WARNINGS, AND TO USE THE PRODUCT PROPERLY.

Warning - Risk of electric shock or fire

Connect the Product power adaptor or cord to the right supply voltage (120V AC in USA)

Pay attention to the power load of the electrical outlet and possible extension cord. An overburdened power outlet or damaged cords and plugs may cause electric shock or fire. Check the power cords regularly. If you find any damage, replace the cord immediately.

Do not connect the plug into an extension cord, receptacle, or other outlet unless the plug can be fully inserted with no part of the blades exposed.

Leave adequate space for heat dissipation to avoid any damage caused by overheating the Product. Do not cover the Product or its ventilation holes. Blocking the ventilation holes may cause fire.

Use the power adapter provided with your Product and do not fasten the power cable to building surfaces. Ensure the cable can move freely. Do not place heavy objects on the cable.

Do not use the Product outside, and make sure all the connections are indoors.

Do not install, use, or service this Product during a thunderstorm. There is a remote risk of electric shock from lightning.

The standby power consumption of the Product is 4.5W.

Caution - Potential equipment damage

Follow these recommendations to protect yourself and the Product from harm:

Use the Product only in upright position as shown in the Quick Start Guide.

Do not insert any sharp object into the openings of the Product.

Do not put the Product near a heat source. Avoid placing the Product in direct sunlight.

Do not put the Product in damp or wet locations; for example, near a bathtub, washbowl, kitchen sink or laundry tub, in a wet basement, or near a swimming pool. Do not spill any liquid on the Product.

Do not touch the Product or its power adapter or cord with wet hands.

Do not place the Product on an unstable surface or support.

Do not place anything on top of the Product.

Do not use liquid or aerosol cleaners; unplug the Product and use a soft, dry cloth for cleaning.

When connecting a PC or other electronic device to the Product, make sure you use the right cables and connect the device to the right port of the Product. Incorrect connections may damage the device and/or the Product.

Do not open or try to open the Product. Opening or removing covers can expose you to dangerous high voltage points or other risks.

Do not attempt to access, manipulate, insert foreign objects into, remanufacture, or immerse or otherwise expose it to water. Do apply care to avoid accidental drops along with the Product.



Users and other individuals must maintain a distance of at least 28cm between themselves and the Product to avoid exposure. The Product contains components that emit an electromagnetic field and could interfere with pacemakers or other electronic medical devices. If you have a pacemaker or other implantable or personal medical device, please consult your physician or medical device manufacture about the required minimum safe distance between the Product and your medical device.

If the Product malfunctions or fails to perform as expected, stop using it immediately.

The Product is for indoor and domestic use only.

ENVIRONMENTAL AND REGULATORY REQUIREMENTS

Any changes or modifications not expressly approved by the party responsible for compliance of this device voids the user's authority to operate this device.

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

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 or more 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 has been tested and meets applicable limits for Radio Frequency (RF) exposure. This equipment must be installed and operated with minimum distance 28cm between the radiator & your body.

For Products Purchased in the United States



FCC ID: P27-TMOG4SE

FCC Radiation Exposure Statement

This device complies with FCC radiation exposure limits set forth for an uncontrolled environment. To ensure compliance with the FCC's RF exposure guidelines, the device must be used at least 28cm from your body.

For further compliance information in this regard, including FCC Guidelines for Human Exposure and FCC Information for User, please consult <https://www.t-mobile.com/responsibility/consumer-info/safety/radio-frequency-safety>.

