

# DO NOT PRINT THIS PAGE

## Printing Notes:

**Material:** 80 GSM Bond Paper or 50# Bond Paper White

**Ink:** Black

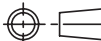
**Resolution:** 150 DPI or above

**Printing method:** Offset Printing

**Binding:** Perfect Bond

**Folded size:** 105 x 143 mm (H x W)

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METRIC [INCH]							
METRIC [INCH]							
CRITICAL DIMENSION CHECKING IS COMPULSORY							
VOLUME	cm <sup>3</sup>	1.0	18-Sep.-19	NEW		Jonathan	XX
MASS	grams	REV.	DATE	MODIFICATIONS		NAME	ECN NO.
DENSITY	g/cm <sup>3</sup>	MATERIAL: SEE NOTES			Furrion Property Holding Ltd.		
GENERAL TOLERANCES EXCEPT AS NOTED 0 TO 6mm = ±0.1 >6 TO 30mm = ±0.2 >30 TO 80mm = ±0.3 >80 TO 180mm = ±0.4 >180mm = ±0.5 ANGULAR = ± 3°		FINISH SPEC: SEE NOTES			COMPOSITE-NO	SHEET 1 OF 1	
		SCALE: 1:1	DATE: 10-Dec-18	DRAWN BY: Lucas Sun	APPROVED BY: Karl Fung		REVISION: 1.0
		NAME: IM for LTE Wi-Fi Router with Swappable SIM Card					PART NO. IM-FAV00072

# FURRION ACCESS™

## LTE Wi-Fi Router with Swappable SIM Card

*Instruction Manual*  
*Manuel d'instructions*  
*Manual de instrucciones*



Model/Modèle/Modelo: FAN17B87  
FAN17B8F

# Welcome

English

Thank you for purchasing the Furrion® Wi-Fi Router **with Swappable SIM Card**. Before operating your new product, please read these instructions carefully. This will ensure safe use and reduce the risk of injury. This instruction manual contains information for installation, maintenance of the product and safe use.

Please keep this instruction manual in a safe place for future reference. Be sure to pass on this manual to any new owners of this product.

The manufacturer does not accept responsibility for any damages due to not observing these instructions.

If you have any questions regarding our products, please contact us at:  
**support@furrion.com**

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# About your Product

Furrion LTE Wi-Fi Router supports **LTE B2/B4/B5/B12/B13/B14/B66/B71 and WCDMA B2/B4/B5**. Popular operating systems such as Windows, Linux and Mac, and smart devices like iOS and Android are compatible with this product.

This device is ready for the Furrion network. Once you have installed the device, turn on the power and after few minutes the router should attach itself to the LTE network as default. It is as simple as that.

Please read this manual when using Furrion LTE Wi-Fi Router for the first time.

## Product Features

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- Slide-in Design - Easy Installation
- Furrion Network Ready
- Online Top-up through Furrion APP, Web and call center
- Swappable SIM card supported
- Web/APP for configuration
- Auto detect web login/security check
- WPS supported
- Emergency and roadside assistance support

## FCC Statements

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

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:

# About your Product

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

## IC Statement

---

This device contains licence-exempt transmitter(s)/receiver(s) that comply with Innovation, Science and Economic Development Canada's licence-exempt RSS(s). Operation is subject to the following two conditions:

- (1) This device may not cause interference.
- (2) This device must accept any interference, including interference that may cause undesired operation of the device.

This equipment complies with IC RSS-102 radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 20cm between the radiator and your body.

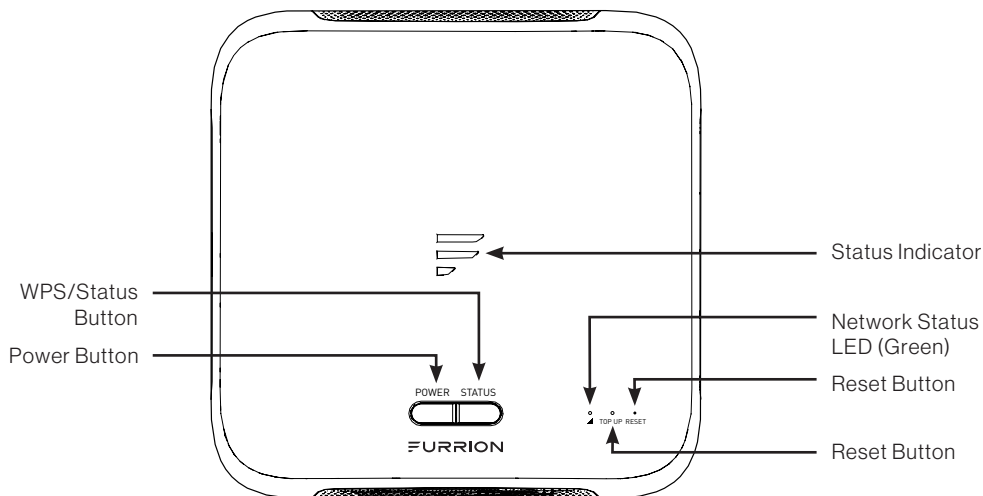
L'émetteur/récepteur exempt de licence contenu dans le présent appareil est conforme aux CNR d'Innovation, Sciences et Développement économique Canada applicables aux appareils radio exempts de licence. L'exploitation est autorisée aux deux conditions suivantes :

- (1) L'appareil ne doit pas produire de brouillage;
- (2) L'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.

Cet équipement est conforme aux limites d'exposition aux radiations IC CNR-102 établies pour un environnement non contrôlé. Cet équipement doit être installé et utilisé avec une distance minimale de 20 cm entre le radiateur et votre corps.

# Product Overview

English



Button/ Indicator	Description
<b>Power Button</b>	<ul style="list-style-type: none"> <li>In OFF mode, press and hold the <b>POWER</b> button for about 4 seconds to turn on the device. The Status Indicator LED will be illuminated and then off.</li> <li>In ON mode, press and hold the <b>POWER</b> button for about 4 second to turn off the device.</li> </ul>
<b>WPS/Status Button</b>	<ul style="list-style-type: none"> <li>Press and hold the <b>WPS/STATUS</b> button for 5 seconds to turn on the WPS function. The default setting is 2.4G Wi-Fi. You can choose 5G Wi-Fi from the router configuration page.</li> <li>Briefly press the <b>WPS/STATUS</b> button to view the network signal strength. The Signal Indicator LED will be illuminated for about 20 seconds and the number of lit bars indicates the signal strength. <b>NOTE:</b> You can check the signal strength by turning on the <b>Status LED</b> via the router configuration page. The Signal Indicator LED will remain illuminated unless you disable the <b>Status LED</b> option on the router configuration page.</li> <li>Press and hold the <b>WPS/Status</b> button for 5 seconds to turn on the WPS function. The default setting is 2.4G Wi-Fi.</li> <li>Briefly press the <b>WPS/STATUS</b> button to view the network status. The network status LED will be illuminated for about 20 seconds. <b>NOTE:</b> You can check the network status by enabling the <b>Status LED</b> option on the router configuration web page. The network status LED will be kept illuminated unless you disable the <b>Status LED</b> option.</li> </ul>

# Product Overview

Button/ Indicator	Description
<b>Reset Button</b>	<ul style="list-style-type: none"> <li>● Press and hold the <b>RESET</b> button with a pointed object for 10 seconds to reset the device to factory default settings. All the LEDs blink 3 times, indicating you have reset the device successfully.</li> <li>● Briefly press the <b>RESET</b> button with a pointed object to reboot the device.</li> </ul>

Internet Source	Condition	Indication
LTE	Account at no balance/not activated	<ul style="list-style-type: none"> <li>● Signal Indicator normal, white LED normal.</li> <li>● Red LED always ON, until the account is set up and prepaid.</li> </ul> <p><b>NOTE:</b> It will remind you when your account balance is low or empty.</p>
	Network ready	<ul style="list-style-type: none"> <li>● Signal Indicator normal (refer to network signal strength).</li> <li>● Green LED ON.</li> </ul>
	No LTE networks	<ul style="list-style-type: none"> <li>● Signal Indicator OFF.</li> <li>● Green LED blinking once per second.</li> </ul>
External Wi-Fi	Wi-Fi Network connected and Internet ready	<ul style="list-style-type: none"> <li>● Signal Indicator all ON.</li> <li>● Green LED OFF.</li> <li>● Red LED off (even when at no balance).</li> </ul>
	No valid Wi-Fi connected or Internet not ready	<ul style="list-style-type: none"> <li>● Signal Indicator all ON and blinking once per second.</li> <li>● Green LED OFF.</li> <li>● Red LED OFF (even when at no balance).</li> </ul>



# Installation

## What's in the box

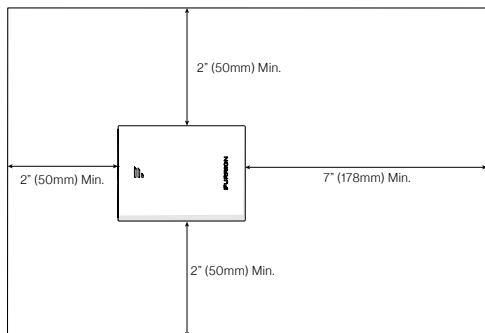
Make sure you have the following items included in the packaging. If any item is damaged or missing, contact your dealer.

- LTE Wi-Fi Router x 1
- Device Identity Sticker x 1
- Warranty Card x 1
- Instruction Manual x 1

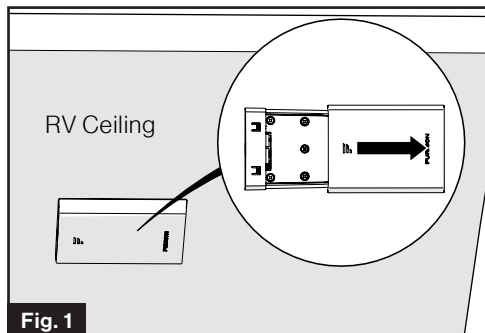
## Slide in the Router

This LTE Wi-Fi Router is designed for using with Furrion rooftop antenna only. Refer to the separate Furrion outdoor antenna instruction manual about how to install it onto the RV rooftop.

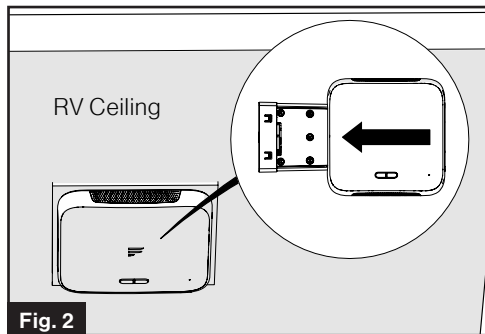
**NOTE:** A Furrion Rooftop Antenna with mounting bracket (sold separately, part#FAN73B7C) should already have been installed on your RV rooftop. If not, contact your RV dealer or visit [www.furrion.com](http://www.furrion.com) to purchase it.



1. Pull to remove the cover attached over the existing Ceiling Mount Bracket. (Fig. 1)



2. Slide the LTE Wi-Fi Router into the existing Ceiling Mount Bracket. (Fig. 2)



3. Your LTE Wi-Fi Router is now fully installed onto the RV ceiling.

# Preparation

This device is ready for the Furrion network. Simply slide the device into the ceiling mount bracket. For first time use, you are required to activate the Furrion Network Service online, which allows you to access the best LTE network coverage in North America.

## Material Preparation

The device's ICCID and IMEI numbers can be found on the warranty card, the device identity sticker or the rating label. Before activating your device, make sure you have one of the materials prepared for the activation.

## Furrion Network Service Activation

There are 3 methods for you to activate the device.

- **Method 1 - Use your computer or a smart device, such as a smart phone, tablet, etc. to visit [furrion.com](http://furrion.com). You can also scan the QR code on the label of the device.** The online instructions will guide you to complete the activation process.
- **Method 2 - Call Furrion Customer Service hotline for support.** Please have the Warranty Card of the device or the Device Identity Sticker included in the package on hand.

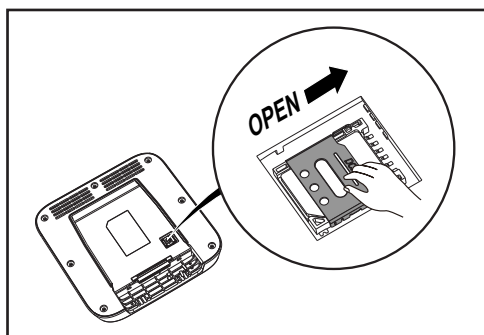
- **Method 3 - Through the Furrion Access for activation.**

**NOTE:** You are required to have access to the Internet via an external Wi-Fi network. Otherwise, please use either Method 1 or Method 2. Follow the "Device Configuration" section for activation information.

## Optional: Replace Built-in Data Card with Another Activated SIM Card

You can use your own SIM card for Internet access (e.g., when the built-in data card is out of balance).

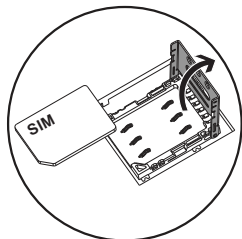
1. Slide the SIM card holder towards the indicated direction to unlock it, then lift up the holder.



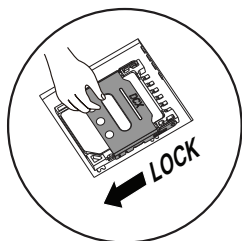
# Preparation

English

2. Take out the original SIM card. Place another activated SIM card on the tray, with the notch end correctly oriented and the metal contacts facing down.



3. Put down and lock the SIM card holder securely.



# Internet Access through the Router

## Power on Your Router

Turn on the power connected to the Ceiling Mount Bracket. The LTE Wi-Fi Router will be turned on automatically upon receiving power.

**NOTE:** You may log in to the LTE Wi-Fi Router and disable the auto power-on feature through the configuration interface. The default setting is **Enabled**.

If the LTE Wi-Fi Router is turned off, press and hold the **POWER** button on the top for about 4 seconds to turn it on.

## Connect to the Router for Internet Access

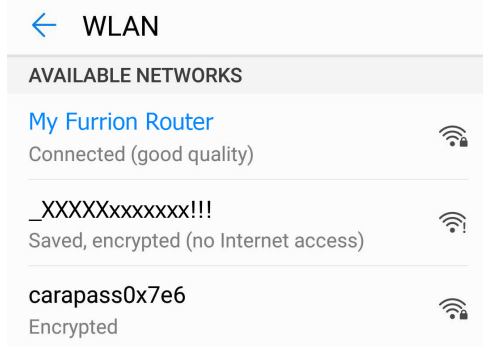
Your LTE Wi-Fi Router supports auto-switch between 4G LTE and External Wi-Fi.

When the Furrion Network Service in the built-in data card is activated or you have replaced it with another activated SIM card, you can connect your smart devices or **computer** to the LTE Wi-Fi Router for Internet access directly. See '**Router Configuration - Change Wireless Settings**' for how to rename the SSID of the LTE Wi-Fi Router.

For Internet access through an external Wi-Fi network, see '**Router Configuration - Connect to an External Wi-Fi Network**' for how to configure your LTE Wi-Fi Router.

## Connect to the Router Wirelessly

1. Scan for wireless networks on your mobile device or laptop. It may take a few minutes for the network to appear.
2. Find the SSID you set for the Wi-Fi Router, for example, **My Furrion Router**.



3. Confirm for connection to the LTE Wi-Fi Router.
  - Now you can access to the Internet through the LTE Wi-Fi Router.

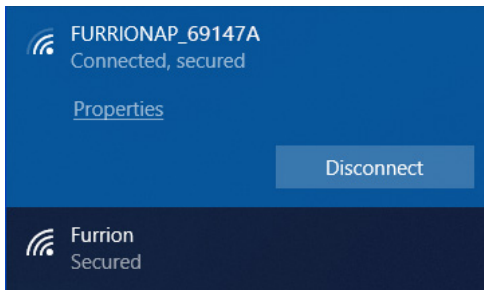
## Connect to the Router through LAN Connection

For Internet access, you can also connect your device (such as a laptop or smart TV) to the LAN socket available on the Ceiling Mount Bracket.

# Router Configuration

## Connect to Your Router for Wi-Fi Configuration

- Scan for wireless networks on your mobile device or laptop. It may take a few minutes for the network to appear.
- Select Local Wi-Fi network with **SSID: FURRIONAP\_XXXXXX**  
**Password: FAXXXXXX**  
The "XXXXXX" in the example above corresponds to the last 6 characters of the unique network ID address. The default password can be found on the SSID/WPA sticker.

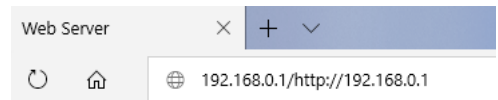


- Confirm and join the network.

## Log in to the Configuration Interface

The default IP of this LTE Wi-Fi Router is **192.168.0.1** with subnet 255.255.255.0. Make sure the smart device or **computer** attached to this router is in the same subnet and has an IP address in the range between 192.168.0.2 - 192.168.0.254.

- Launch a web browser and enter **192.168.0.1** in the address bar, then the login window will pop up.



- Enter the default user name: **admin** and password: **admin**.



- Click **Login**.

## System Icon Definition

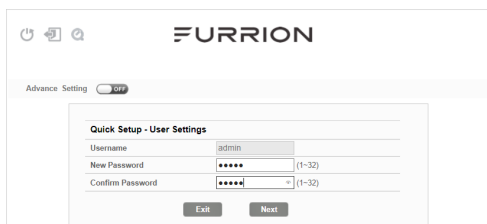
	Reboot the system.
	Click to logout of the system.
	Click for quick setup of your system.
	Indicates the signal strength.

# Router Configuration

## Quick Setup of your Router

### Change Administration Password

After successful login, the following screen will appear and you will be required to setup a new password for the “admin” account for device management.



**Username:** Show the current user name.


**New Password:** You can enter 1-32 characters as your new password.

**Confirm Password:** Enter the new password again.

Click **Next** to go on to the next step.

### Connect to an External Wi-Fi Network

On the popup screen, select **Ext Wifi** for access to Furrion network activation.



**LTE:** For Internet service through the LTE network.

**Ext Wifi:** For Internet service through the public Wi-Fi network.

After selection of **Ext Wifi**, you can select an available AP (Access Point) for Internet access.

Click **SCAN** to scan available APs and the following window will appear:

No.		SSID	BSSID	Signal Level (strong to weak)	Channel	Security Mode
1	<input type="radio"/>	Furion	D8:38:FC:36:5A:F8	-41 dBm	1	WPA1PSK/WPA2PSK/AES
2	<input checked="" type="radio"/>	Furion_Guest	D8:38:FC:76:5A:F8	-42 dBm	1	WPA1PSK/WPA2PSK/AES
3	<input type="radio"/>	NWD_4F	B0:95:8E:9C:BE:59	-56 dBm	6	WPA1PSK/WPA2PSK/AES
4	<input type="radio"/>	ESPR266	92:7D:3A:C7:CE:BB	-57 dBm	1	Disable
5	<input type="radio"/>	Jansjery	50:2B:73:EB:0D:74	-65 dBm	10	WPA1PSK/WPA2PSK/AES
6	<input type="radio"/>	KFRouter_Test	CC:08:FB:AD:9D:44	-65 dBm	11	WPA1PSK/AES
7	<input type="radio"/>	NWDDGATEST	78:44:FD:66:36:CB	-71 dBm	6	WPA1PSK/AES
8	<input type="radio"/>	ZengSX	B0:D5:9D:84:80:64	-78 dBm	1	WPA1PSK/WPA2PSK/AES
9	<input type="radio"/>	KFRouter_4F	08:EA:40:D0:80:24	-81 dBm	9	WPA1PSK/TKIP/AES
10	<input type="radio"/>	park	B6:66:2D:43:5D:53	-82 dBm	6	WPA1PSK/WPA2PSK/AES
11	<input type="radio"/>	vgtfinance-2 4G-1	E8:FC:AF:F5:84:BA	-84 dBm	2	WPA1PSK/WPA2PSK/AES
12	<input type="radio"/>	RedteaMobile	06:74:9C:04:7D:86	-84 dBm	6	WPA1PSK/AES
13	<input type="radio"/>	NWDCOS	08:EA:40:65:F2:3C	-84 dBm	11	WPA1PSK/WPA2PSK/TKIP/AES
14	<input type="radio"/>	SYXX-7F	9C:C9:99:06:8C:30	-86 dBm	1	WPA1PSK/WPA2PSK/AES
15	<input type="radio"/>	CAA	56:68:95:48:DE:E7	-88 dBm	11	WPA1PSK/WPA2PSK/AES
16	<input type="radio"/>	gffy	34:36:3B:C4:1B:DE	-89 dBm	11	WPA1PSK/WPA2PSK/AES
17	<input type="radio"/>	KOT Test	0C:4D:54:99:43:D2	-90 dBm	11	WPA1PSK/AES
18	<input type="radio"/>	CPE-mxpt	68:89:75:98:3C:AC	-94 dBm	12	WPA1PSK/WPA2PSK/AES

Choose the AP you want to connect from the pop-up window and click **Apply** to apply the network settings.

**AP SSID:** The SSID of the scanned and applied AP will appear here. You can also enter an available network SSID here directly.

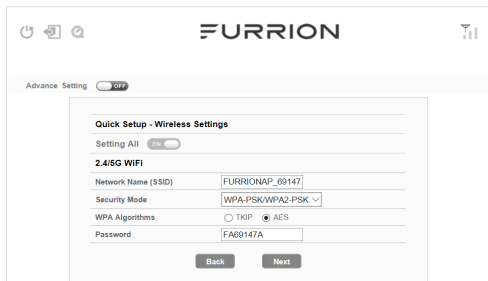
**Password:** Enter the password of the selected AP.

After entering the password for the selected AP, click **Next** to go on to the next step.

# Router Configuration

## Change Wireless Settings

A new window will pop up, where you can change wireless settings.



**Network Name (SSID):** Rename the SSID of the LTE Wi-Fi Router. For example, rename it to **My Furrion Router**.

**NOTE:** Make sure that your SSID is unique if there are other wireless networks operating in your area.

**Security Mode:** Select a security mode: **No Encryption, WPA-PSK, WPA2-PSK, or WPA-PSK/WPA2-PSK.**

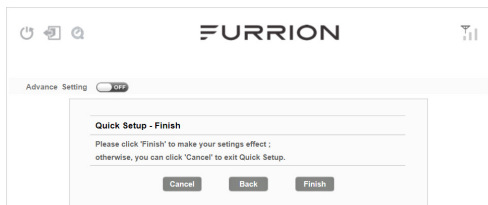
**WPA Algorithms:** **TKIP** or **AES**.

**Password:** Set the password for Internet access through the LTE Wi-Fi Router.

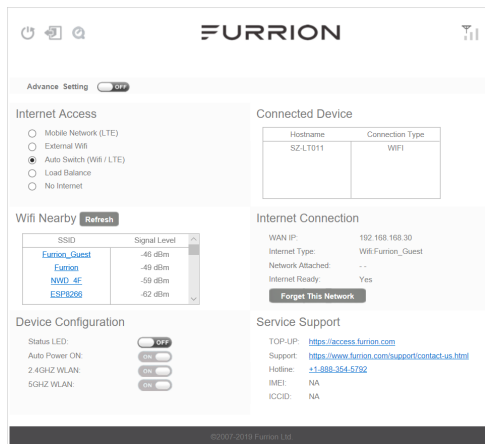
Click **Next** to go on to the next step.

## Confirm Your Settings

In the pop-up window, click "**Finish**" to save and finish the quick setup.

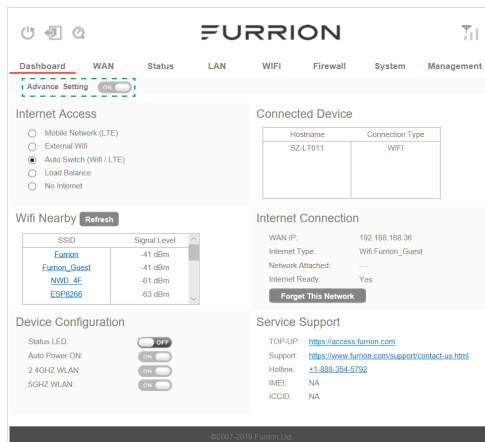


You should now be able to access the Internet after the LTE Wi-Fi Router configuration is finished.



## Advance Setting

Click **Advance Setting** to activate the advance setting page, where you can configure advanced settings of WAN, LAN, Wi-Fi, Firewall etc.



# Maintenance

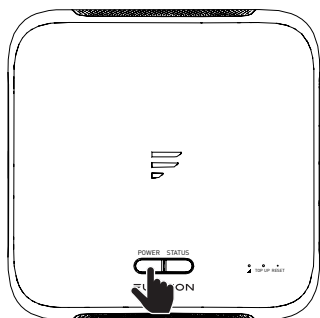
## Power off or Reboot Your LTE Wi-Fi Router

**Note:** Be careful the LTE Wi-Fi Router might be hot after operating for a long time.

You can power off or reboot it when necessary.


### To power off:

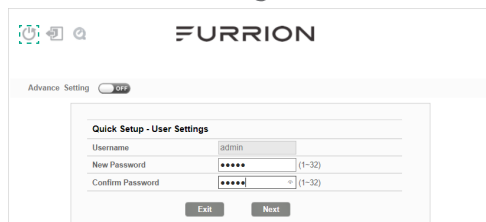
- Press and hold the **POWER** button on top of the LTE Wi-Fi Router for about 4 seconds. The Network Status LED will flash and then turn off.



**NOTE:** It is recommended to wait 30 seconds before turning on the Wi-Fi Router after it is powered off.

### To reboot:

- Log in to the configuration interface (see **“Login”** section about how to log in), then click the  button.

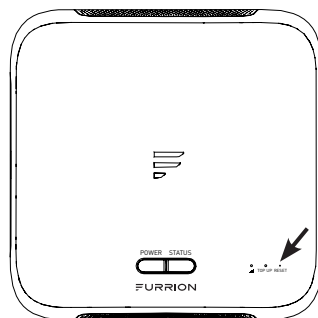


- Or briefly press the **RESET** button with a pointed object.

## Reset your Wi-Fi Router

To restore the LTE Wi-Fi Router to factory default settings, press and hold the **RESET** button using a pointed object for about 10 seconds then release.

The LED will flash 3 times then disappear.





# Specifications

English

## Technical Specifications

### OPERATING CONDITIONS

<b>POWER RATING</b>	9-16 Vdc
<b>CURRENT CONSUMPTION</b>	Typical: 12Vdc @ 500mA, Max. 1A
<b>OPERATION TEMPERATURE</b>	-20°C to 55°C / -4°F to 131°F

### RF SPECIFICATIONS

<b>FREQUENCY RANGE</b>	2412MHz to 2462MHz/ <b>2422MHz to 2452MHz</b> 5180MHz to 5240MHz/ <b>5190MHz to 5230MHz/ 5210MHz</b> 5475MHz to 5825MHz/ <b>5755MHz to 5795MHz/ 5775MHz</b>
<b>SUPPORTED SYSTEM</b>	802.11a/b/g/n/ac
<b>SECURITY CODE</b>	WEP, WPA, WPA2, WPA mixed
<b>SUPPORTED BAND</b>	LTE: B2/B4/B5/B12/B13/B14/B66/B71 WCDMA: B2/B4/B5
<b>TX POWER WI-FI (WAN / LAN)</b>	2.4G WiFi: 20.11dBm (Max.) 5G WiFi: 15.51dBm (Max.) <b>LTE: 25dBm (Max.)</b>
<b>BANDWIDTH</b>	HT20/HT40/HT80
<b>WIRELESS RANGE</b>	>400ft with 10Mbps throughput (open field)
<b>ANTENNA GAIN</b>	Max 4dBi

### INTERFACE

<b>ETHERNET PORT</b>	2 x 10/100/1000mbps RJ-45
----------------------	---------------------------

# Troubleshooting

- 1. None of the LEDs are on when you turn on the router**  
Make sure you have power to the Ceiling Mount Bracket.  
Check the connection between the Ceiling Mount Bracket and the LTE Wi-Fi Router. If the error persists, you may have a hardware problem. In this case you should contact technical support.
- 2. You have forgotten your router login and/or password**  
Try the default login and password, found in the "Login" section. If this fails, you can restore your router to its factory settings by pressing and holding the **Reset** button on top of your router with a pointed object for 10 seconds or more. You will be able to use the default login and password after the factory reset.
- 3. No access to the Internet**  
Check the external network access status and Wi-Fi connection. Alternatively, your Furrion Network Service account may have insufficient data balance.

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