# simplifi®

# Connect.
# Protect.
# Control.

BS6425L

# Connect | Protect | Control

**Connect** your devices to the internet over cellular & fixed wired line, instantly. **Protect** your home, small business, boat, or RV with built-in cellular back-up and advanced security features. **Control** your network With Simplifi's cloud-based remote management platform.

# Simplifi has all your home and small business connectivity needs covered.

## A device that multi-tasks.
You need tools that are flexible, portable, secure and can multi-task right along side of you.

**Resiliency**
Built in failover so you never lose connection again!

**Security**
IP pass through, port forwarding, cellular to ethernet connection.

**Connected**
Complete network in a box, capable of 32 WiFi connections when connected to fixed wire line and/or LTE/4G, 3G, 2G.

**Simplicity**
Plug n' play, set and forget remote management platform for easy configuration.

**Easy Deployment**
All in one form factor, just insert a SIM, set-up and connect. It's that easy, really.

**Reliable**
24 hour support, enterprise grade solution.

**Flexibility**
Scalable: great for one use or thousands.

**Portability**
No moving parts, no external antennas, works anywhere there is cellular connection.

**Value**
Business grade DIY. No IT required.

Simplifi provides the connectivity, you chose how you live, work, & play.

| | |
|---|---|
| **Networks** | BS6425L-A-11 |
| |     LTE FDD: B2/B4/B12 |
| |     WCDMA: B2/B4/B5 |
| | BS6425L-AF-11 |
| |     LTE FDD: B2/B4/B5/B12/B13/B14/B66/B71 |
| |     WCDMA: B2/B4/B5 |
| | BS6425L-AU-11 |
| |     LTE FDD: B1/B2/B3/B4/B5/B7/B8/B28 |
| |     LTE TDD: B40 |
| |     WCDMA: B1/B2/B5/B8 |
| |     GSM: B2/B3/B5/B8 |
| | BS6425L-E-11 |
| |     LTE FDD: B1/B3/B5/B7/B8/B20 |
| |     LTE TDD: B38/B40/B41 |
| |     WCDMA: B1/B5/B8 |
| |     GSM: B3/B8 |
| | BS6425L-G-11 |
| |     LTE FDD: B1/B2/B3/B4/B5/B7/B8/B12/B13/B18/B19/B20 |
| |     B25/B26/B28 |
| |     LTE TDD: B38/B39/B40/B41 |
| |     WCDMA: B1/B2/B4/B5/B6/B8/B19 |
| |     GSM: B2/B3/B5/B8 |
| | BS6425L-V-11 |
| |     LTE FDD: B4/B13 |
| **Data Speeds** | LTE - FDD CAT4 Max150Mbps (DL), Max 50Mbps (UL) |
| | DC-HSPA+ DL 42 Mbps |
| | HSUPA – UL 5.76Mbps |

| | |
|---|---|
| **WLAN** | Dual-Band/ 802.11 b/g/n/ac, WPA / WPA2/WPA2 Enterprise |
| **USB (3.0)** | USB (Host) HS and FS |
| **LAN (10/100/1000 Base-T)** | RJ-45 Modular Jack on side panel for TCP / IP, PPP, UDP |
| **SIM** | 1.8V and 3.0V standard USIM (2FF) |
| **LED Indicators** | Cellular network status (1 ea.)<br>LAN traffic (1 ea.)<br>USB traffic (1 ea.) |
| **Power Supply Requirements** | 120 /240 VAC at 10VA (10W) max |
| **Outline Dimensions (Less AC prongs and mounting tab)** | 4.1″ (104mm) Height<br>2.2″ (56mm) Width<br>2.0″ (51mm) Depth |
| **Weight** | 7 oz (198 g) |
| **Operating Temperature** | -10°C to +40°C |
| **Storage Temperature** | -30°C to +70°C |
| **Approvals** | PTCRB, 3GPP<br>FCC parts 2 and 15<br>CE, TUV |

# Quick Start Guide

With this guide you can get your Simplifi up and running within 5 minutes and ready to run for the following uses:

Small Business
or Home Office

Streaming Content
(on your TV, media player, etc.)

Linking IoT Devices

Smart home

Mobile Businesses—
(Food Trucks, Construction Trailers, etc.)
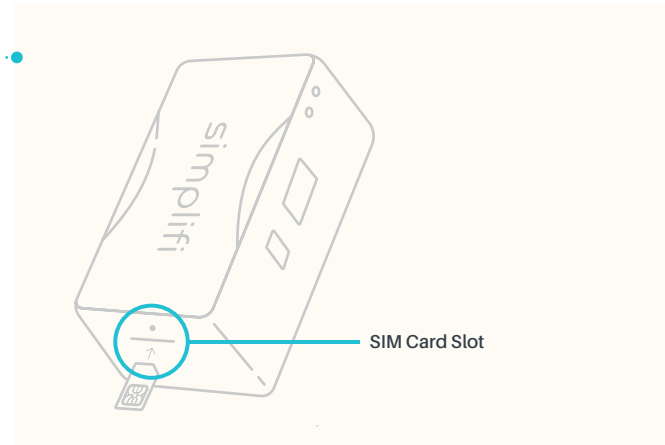
Tradeshow

Recreational

POS, Auditing, Digital Signage

Second Home

simplifi.

# Quick Start Guide

## Step 1

Once you have selected the correct SIM and plan insert your full sized SIM Card with the circuit board (on the SIM card) facing up.

SIM Card Slot

## Step 2

Take a picture or record the Device Password on the back of your Simplifi device. Plug into an active power outlet & wait for solid green LED status light (should take approx. 2 minutes).
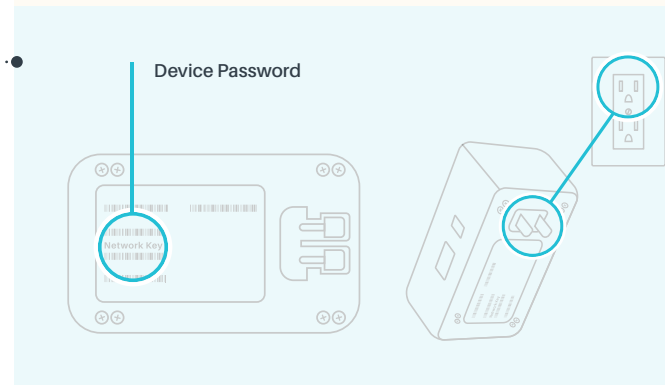
**?** If the device is plugged in and you haven't received a solid green light, troubleshooting may be needed. Go to FAQ on page 9 to check for technical issues or contact support@simplifi.io

Device Password

Network Key

## Step 3

Search for the 'Simplifi-xxxx' WiFi network on your device; connect to this network by entering the Device Password that you had recorded or taken a picture of on step 2 or as noted on the side label of your Simplifi box under the Device Password.

Enter Password
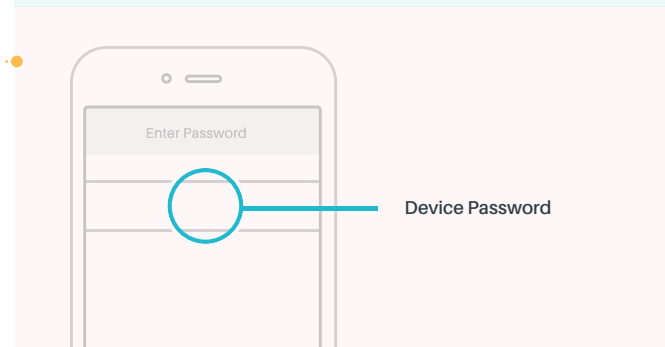
Device Password

## Step 4

To access the GUI enter 192.168.2.1 into your web browser, then enter the user name 'Simplifi' and Device Password from the back of the Simplifi device or as noted on the side label of your Simplifi box under the Device Password.

After configuring the device. Your Simplifi will restart and will be ready to use after a solid green light turns on. You are now free to use the internet with Simplifi.

192.168.2.1

**User Name**

Simplifi

**Password**

*******
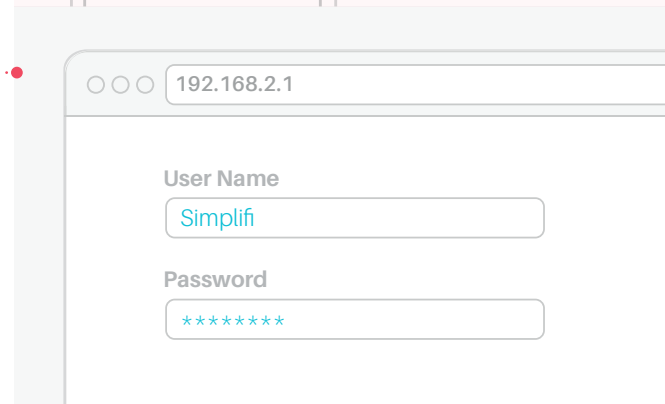
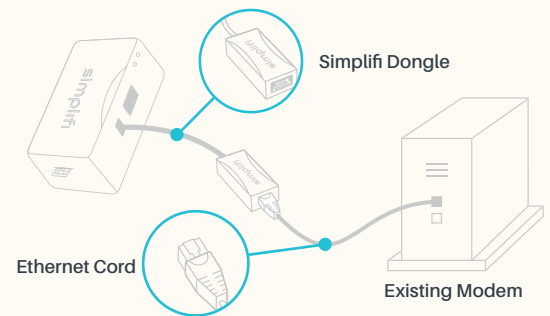## Network Insurance or Back-Up Configurations

Simplifi allows you to back-up your existing network in 3 ways: as your primary router with back-up, to provide back-up when you have a router or extender, and enterprise failover.

**?** Note, to use the Network Insurance feature of your Simplifi you will need to have an existing cable internet service provider to act as a primary internet connection.

### Configuration 1: Router with Backup

To set up Simplifi as your main router with built-in backup, first simply plug the USB end of the provided Simplifi Dongle into your Simplifi USB port. Then, using an additional Ethernet cable, plug one end into the Simplifi Dongle and connect it to the LAN outport on your existing modem.

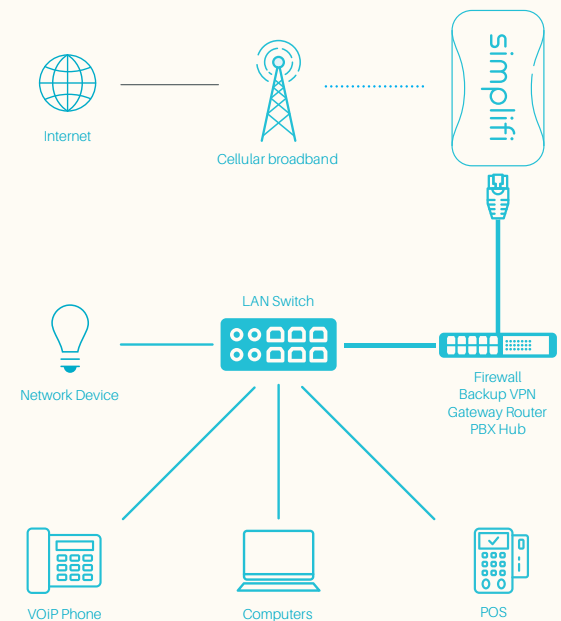Simplifi Dongle

Ethernet Cord

Existing Modem

### Configuration 2: Extender on Router

To set up Simplifi as network back-up with an extender or another router, first simply plug the USB end of the provided Simplifi USB to Eth dongle into your Simplifi USB port. Next connect a 2nd Ethernet cable from Simplifi's LAN OUT port to your extender or router.
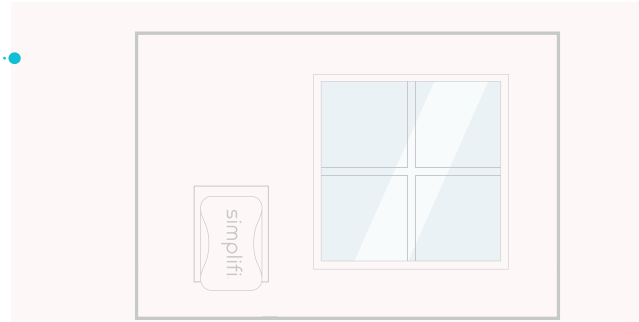
Ethernet Cord

Router

Modem
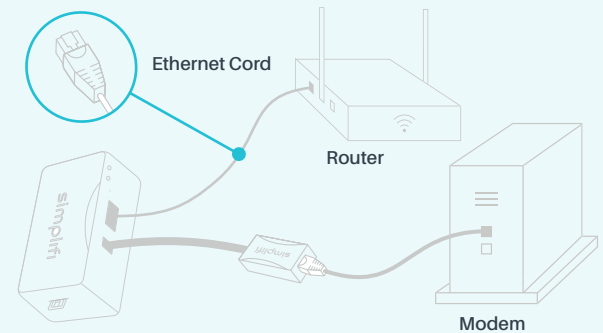
### Configuration 3: Enterprise Failover

Each instance of Enterprise Failover is unique and you should consult your network administrator before installing. Enterprise failover applications could include installing Simplifi on a Firewall in a network, PBX or VOIP failover situation. By connecting a Ethernet cable directly to the LAN out port on Simplifi to the inbound WAN port on your firewall and configured accordingly for in/out-bound access in the event the mainline internet goes down, you are insuring your continued connection to the internet. By adding a Static IP Assigned SIM card, you can add another level of security to this environment as well; however, each of these functions are best served with your IT or network administrator's help.

Internet

Cellular broadband

simplifi

LAN Switch

Network Device

Firewall
Backup VPN
Gateway Router
PBX Hub

VOiP Phone

Computers

POS

# Top Tips

## Tip #1

For improved cellular connectivity it helps to place your Simplifi near a window. Additionally, Simplifi should be plugged into the top outlet to occupy the entire outlet.  Cables near the device can interfere with Simplifi's wifi and cellular signal and diminish range.
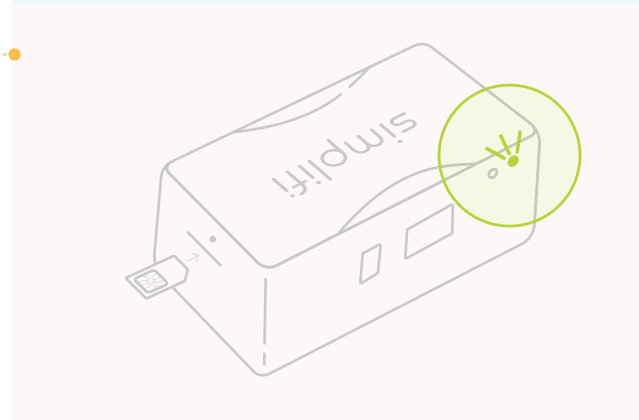
## Tip #2

If you plan to use your Simplifi to back up an existing network, you can either place the unit near your existing set-up or use a Ethernet cable to extend reach.
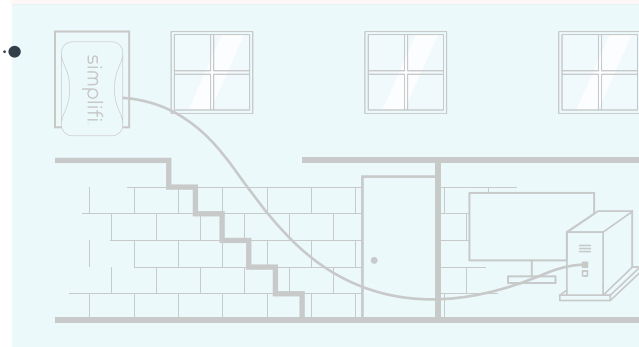
## Tip #3

Ensure you have a solid green light indicating a solid connection to the Cellular tower, if the light is blinking, it is acquiring a signal.

Solid Green
Connected to
cellular Internet.

Blinking Green
Acquiring cellular
connection.

Red
No cellular
service.

**?** If the Simplifi status light continues to blink green for over 5 minutes that means there is an issue with the SIM card, cellular service or the location where Simplifi is plugged in, please relocate to a new area and try again.  If the issue persists then please contact your SIM provider for assistance. If there are no lights on your device, something is wrong with the device. Please email support@simplifi.io for support.

## Top Most Frequently Asked Questions

1. **Can I change or alter my device's IP Address?**
   - Select Network>Interfaces, then click edit on the selected interface. Select Static from the drop down menu. This option will allow you to assign a custom IP address.

2. **How much data does Simplifi use and/or what data plan should I get for my Simplifi?**
   - This depends solely on your use case and intended usage.

3. **How can I check my Signal Strength?**
   - Open your browser and enter 192.168.2.1 into your address bar.
   - Username—if you have not changed it will be 'Simplifi'. If you have changed enter new name.
   - Password—if you have not changed it will be the network key (aka password) found on the back of the unit. If you have changed enter new password
   - The home page displays "Cellular Signal Level"
   - We have built into the code a scale for signal strength based on -dBm. Where the lowest negative number is worse. For example; -100 dBm is worse than -50 dBm.

4. **I forgot my password and can't log into my unit.**
   - Please record the IMEI number found on the back of your device and either call your account rep or email support@simplifi.io and we can reset for you.

5. **What size SIM card should I have?**
   - Simplifi is best used with a full size SIM card
   - If you do not have a full sized SIM you can use an adaptor. You can obtain an adapter kit from your wireless carrier where you purchased the SIM card. Be sure you follow installation instructions carefully.

6. **What is the expected Internet Speed and throughput?**
   - Internet speeds vary from a wide range of possibilities including; location within building, proximity to cellular tower, connected state (LAN vs. WiFi), Wireless carrier, cellular traffic to the tower and countless other factors.

**Here is a rough guide:**
- Failover: Less than 2 GB (depends on typical duration of mainline ISP outage)
- Travel and occasional use: 1-4 GB
- Primary Internet use individual: Depends on Use Case and/or usage
- Primary Internet use for small business: Depends on Use Case and/or usage
- Primary Internet for POS Terminal: 1-4 GB

**Here are some tips for improving speeds**
- Move the device closer to a window or areas with less interference.
- (If possible) use a LAN connection for your devices.
- (If possible) select a different carrier for your SIM card.

7.   **What is the USB to Ethernet Dongle used for?**
   • The dongle is best used for failover applications

8.   **I can't access the Web GUI (Graphical User Interface) using 192.168.2.1**
   • Make sure you are connected to your device WiFi network
   • Clear your browser cache
   • We recommend using Chrome, Safari, or Firefox browsers to connect to the GUI

9.   **Changing WiFi Network (SSID) Password**
   • Enter 192.168.2.1 into your web browser's address bar
   • Username—Simplifi (case sensitive)
   • Password—"Device Password" is found on the back of the unit
   • Select System>Administration, then type your new password twice. Click the save button to confirm your new password.