

A70 5G Mobile Hotspot

User Manual

Model Number: RG3102



NOTE: All images and drawings in this document are examples only. The actual product may vary due to product options and upgrades.

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1



Getting Started

Overview
Components
Device Display
Battery Management

Overview

Thank you for choosing A70 (model number: RG3102) as your new 5G Mobile Hotspot!

With A70, you will enjoy the latest 5G and legacy 4G LTE networks for faster speeds. Connect up to 32 Wi-Fi devices at once, including laptops, tablets, eReaders, smartphones and many more.

System Requirements

- Compatible with all IEEE802.11b/g/n/ac/ax/be Wi-Fi enabled devices.
- Works with the latest versions of most browsers*.

** We recommend using the latest version of your internet browser for optimal compatibility with A70 Web Admin Home Page (<http://mobile.hotspot>). Older versions may not work as expected.*

Components



1. **Power Button** – Turn on/off the device.

Operations	Actions
Turn On	Press and hold the button until the display turns on.
Turn Off	Press and hold the button until the display says 'Goodbye.'
Display Wake-Up	Press the button once to wake up the display when it is off for power saving.

2. **Touch Display** – View device information and menu.
3. **Power Indicator Light** – Blinks when the device is powered on.
4. **Back Button** – Press to go back to previous screen.
5. **Home Button** – Press to return to the main screen.
6. **Menu Button** - Press to access device menu.
7. **Ethernet Port** – Connect LAN cable to connect.
8. **USB-C Port** – Plug the charging cable into the USB-C port to recharge the battery.
9. **Battery Cover Notch** – Lift the notch to open the battery cover.
10. **Battery Cover** – The battery pack can be accessed by opening the battery cover.

Device Display

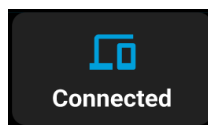
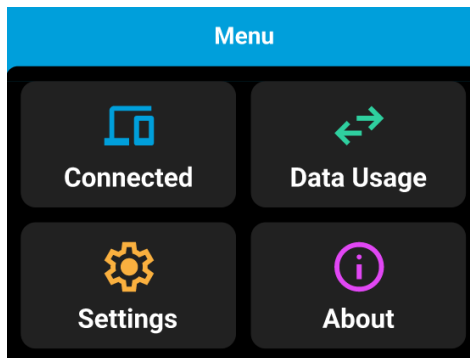


- **Status Icon Bar**

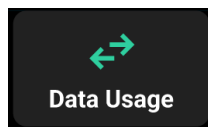
Icons	Status
	Displays the strength of the network signal.
	Indicates current network type connected.
	Displays the quantity of devices connected to the Wi-Fi network.
	Provides alerts regarding SIM card status (no SIM found, SIM PIN locked, SIM error).
	Appears when the USB port is tethering data.
	Indicates Ethernet connection.
	Displays the current battery status.

- **Wi-Fi Information:** Displays Main and Guest Wi-Fi Network Names and Passwords.
- **Quick connect QR code:** Tap to display the QR code for quick scanning and connection.
- **Device Menu:** Press the menu button () to access device setting menu and information.

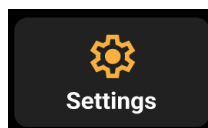
Select the icon and tap to access information or modify settings.



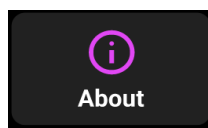
Displays the list of devices connected to your mobile hotspot.



Displays data usage information and alert settings.



Changes device settings.



Displays device information.

Battery Management

Your mobile hotspot is equipped with a replaceable and rechargeable battery. The device can operate from its charged battery or while charging when plugged into a power source.

CAUTION! Refrain from opening or disassembling the mobile hotspot and battery pack, as doing so could damage the product, cause personal injury, and will void the product warranty. Utilize only the designated charger to recharge the battery. A battery charging indicator will be displayed during the charging process. Doing so may cause damage that voids your warranty.

IMPORTANT! Please use only the approved charger to charge your mobile hotspot. Improper handling of the charging port, as well as the use of an incompatible charger may cause damage to your device and will void the warranty.

IMPORTANT! Please DO NOT use your mobile hotspot for a prolonged period while the charger is charging or plugged into power. This can damage the battery and shorten its lifespan. When the battery is charged, disconnect the charger from power before continuing to use.

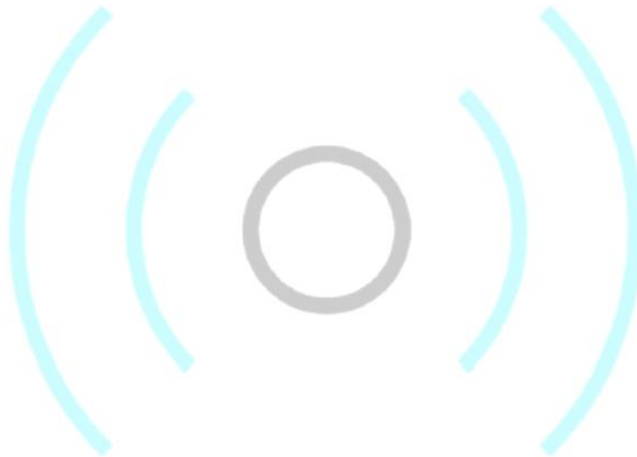
IMPORTANT! To mitigate battery degradation and potential safety hazards, avoid exposing the mobile hotspot and the battery to excessive temperatures for prolonged periods. Store the device in a cool, well-ventilated environment when not in use. Do not place the device on top of other devices or heat sources. Do not cover the device while in operation. Notably, the interior of a vehicle can reach extremely elevated temperatures. Therefore, it is imperative to refrain from leaving the mobile hotspot unattended in vehicles or in locations with elevated temperatures.

CAUTION! The A70 mobile hotspot is designed for portable use only and should not be utilized as a stationary device with a continuously connected power source. Please disconnect the charger when the battery is fully charged. Continuous charging can pose significant safety risks, including battery damage, swelling, rupture, and potential fire hazards.

Battery optimization tips to extend battery life.

- **Display Timeout:** To conserve battery power, your mobile hotspot has an automatic display sleep timer. By default, the display turns off after 30 seconds of inactivity (no screen touch or button press). Disabling this auto-sleep feature will increase battery consumption and reduce operating time.
- **Inactive Timer:** The default inactive time is 10 minutes. If no devices are connected to your mobile hotspot for 10 minutes, it enters sleep mode. To resume operation, gently press any button once. Setting a longer inactive time or selecting "Always On" will increase battery consumption and reduce operating time.
- **Guest Wi-Fi:** Enabling the Guest Wi-Fi network will increase battery consumption and reduce operating time.

2



Using Your A70 Mobile Hotspot

Accessing the Network
Using Your A70 for the First Time
Connecting to Your A70

Accessing the Network

Work effectively outside the home or office with the reliable broadband speed that 5G and LTE service provide. You can connect to the internet wirelessly at a speed fast enough to keep up to date on all your email correspondence, to download attachments, and to access your corporate intranet and many more.

If a SIM card is installed and service is activated, the mobile hotspot will automatically establish a connection to the optimal wireless network upon power-on

Using Your A70 for the First Time

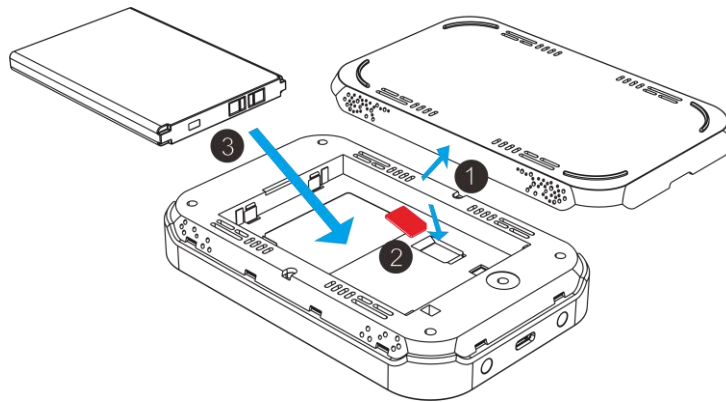
System Requirements

Your computer, tablet, or other wireless devices need Wi-Fi capability and necessary software such as Internet browsers, email client. Your A70 mobile hotspot is compatible with most major operating systems and the latest versions of browsers.

Step 1) Installing the SIM Card

Your SIM (Subscriber Identity Module) card is a miniature rectangular plastic card containing vital information pertaining to your wireless service. If not already inserted, adhere to the following instructions for installation.

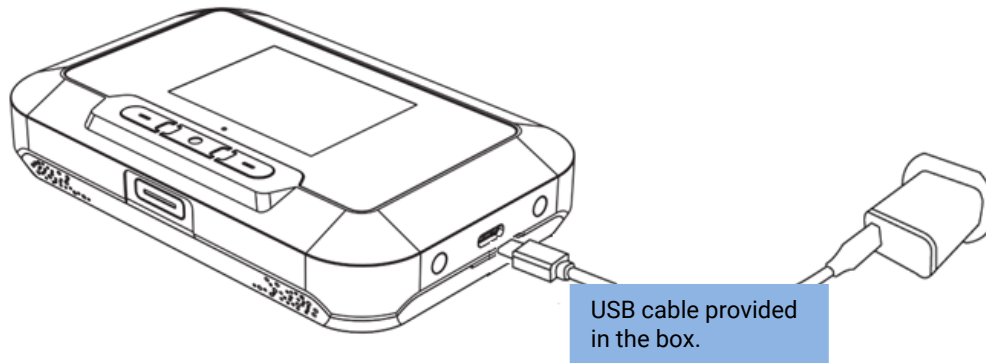
1. Remove the battery cover by lifting the notch on the cover, then take the battery out.
2. Slide your SIM card into the SIM card slot all the way with Wireless Carrier logo facing up.
3. Install the battery and put the battery cover back on.



IMPORTANT! Do not bend or scratch your SIM card. Avoid exposing your SIM card to static electricity, water, or dirt. Whenever you insert or remove the SIM card, ensure your mobile hotspot is powered off and is not connected to any power source. Never use tools, knives, keys, or any type of object to force the door open or to remove the SIM card.

Step 2) Charging the Battery

Before using your mobile hotspot, ensure that the battery is fully charged. Be sure to use the charger that came with your mobile hotspot.



NOTE Your mobile hotspot is equipped with a replaceable rechargeable battery. When handling the battery or SIM card, please make sure the device is not connected to any power sources. Do not use any tools, sharp objects or any utensils when dealing with the battery. Doing so may cause damage that voids your warranty.

- It normally takes 3~5 hours, depending on your power sources and device status to fully charge the battery.
- The battery discharges faster as more devices connect to your mobile hotspot.
- Battery life depends on the network, signal strength, temperature, features, and active connection time.
- When charging, keep your device near room temperature.
- Never leave the mobile hotspot unattended in elevated temperature such as inside a vehicle due to uncontrolled temperatures that may be outside the desired temperatures and damage your mobile hotspot.
- It is normal for batteries to gradually wear down and require longer charging time.

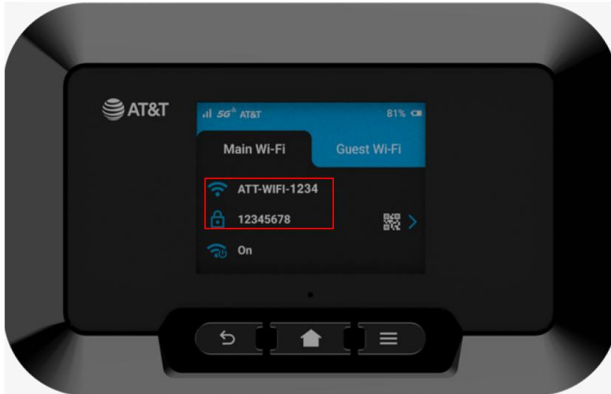
Connecting to Your A70

Step 3a) Connecting via Wi-Fi

Main and Guest Wi-Fi Names and Passwords can be found on the device display.

- 1 Open the Wi-Fi application or controls on your laptop or Wi-Fi capable device that you want to connect to your mobile hotspot.

- 2 Select the Wi-Fi name and enter the password when prompted. The Wi-Fi name and password are located on the main screen of your mobile hotspot.



Your A70 is a wireless mobile hotspot creating Wi-Fi local networks that allow up to 32 Wi-Fi connections to Wi-Fi capable devices around it.

Step 3b) Connecting via USB

Connect your mobile hotspot to your computer with the USB cable provided. It will make data connection automatically.

NOTE USB connectivity is enabled by default. If connection is not established, verify that USB connectivity is enabled within the device menu. Navigate to Menu > Settings > Connection Type

Step 3c) Connecting via Ethernet

Connect your mobile hotspot to your computers with an Ethernet cable (not included). It will make data connection automatically.

NOTE Ethernet connectivity is allowed only when the mobile hotspot is connected to a properly rated charger for safety reasons. It is recommended to use the charger provided in the box by the manufacturer. When the mobile hotspot is operating on the battery only, the Ethernet connection will be disabled.

3



A70 Settings

Managing Your Mobile Hotspot

Web Admin Menu

Home

Messages

Settings

About

Support

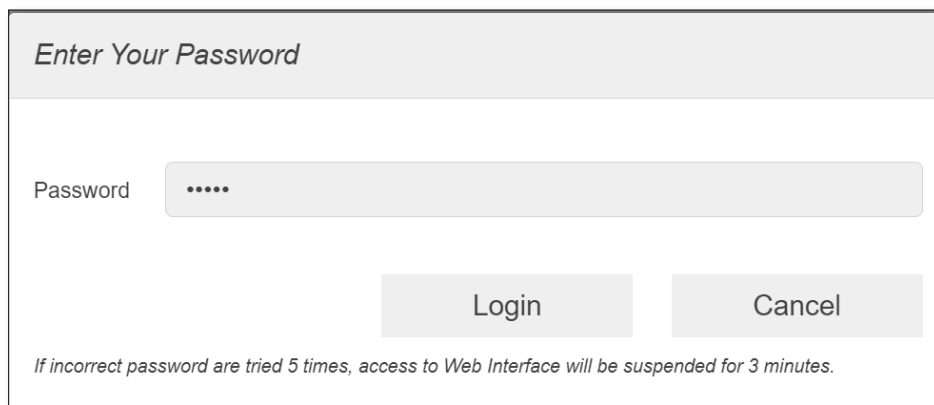
Managing Your Mobile Hotspot

Access **Web Admin** home page

Once connection is set up between your devices and your A70 mobile hotspot, you can access the A70 Mobile Hotspot **Web Admin** home page from internet browsers on your device.

Access A70 Mobile Hotspot **Web Admin** home page.

- 1 Connect your device to A70 mobile hotspot.
- 2 Run a web browser on your device and open the Web Admin home page, <http://mobile.hotspot> (or <http://192.168.10.1> unless you have changed IP settings)
- 3 Click **Log in** and enter the password.



NOTE The default password is **admin**. On your first login using the default password, you will be directed to change the password. It is imperative to change the password on your first login to gain access to the **Web Admin** page.

Web Admin Home Page Security

Your mobile hotspot is factory-configured with security enabled. Upon your initial login using the default password, you will be prompted to change the password.

You can change the **Web Admin** password from the **Web Admin** home page at any time.

To change your **Web Admin** home page password:

- 1 Connect your device to your mobile hotspot.
- 2 Run an internet browser and open page <http://mobile.hotspot>
- 3 Go to **Settings > Device > Change password**.

Web Admin Menu

The **Web Admin** home page allows you to access the following menu.

- Home
- Messages
- Settings
- About
- Support

Home

The home menu shows network connection status, data usage information and usage alert settings.

The screenshot displays the AT&T A70 Mobile Hotspot settings interface. At the top, the AT&T logo and 'Welcome to your A70 Mobile Hotspot' are visible, along with a 'Log out' link. Below this is a navigation bar with icons for Home, Messages, Settings, About, and Support. The main content area is divided into two columns: 'Connection' and 'Data Usage'.

Connection Section:

- Network Status: Connected
- Network: 5G
- Time Connected: 2:00:56
- Data Used: 260.35 MB
- Buttons: 'Disconnect' (circled in red)
- Wi-Fi Settings: Main Wi-Fi, DK_gram, Guest Wi-Fi, No Connected Device

Data Usage Section:

- 38.70 GB of 100 GB Used (with a progress bar)
- 'Reset' button (circled in red)
- Data Usage Meter section:
 - Show data usage on the device display: ☒ ON ☐ OFF
 - Usage meter resets on the date selected here.
 - Usage Cycle: ☒ Monthly ☐ Yearly
 - Date of Month: 1 (dropdown)
 - Cycle ends on 9/30/2024
- Data Usage Alert section:
 - Show data usage alert on the device display when the usage reaches the amount set here.
 - Usage Alert: 100 (input field) ex) 10, 20, 100
 - Unit: GB (dropdown)
 - 'Save Changes' button

Red arrows from the list below point to the 'Disconnect', 'Reset', and 'Usage Alert' elements.

- **Disconnect:** Click Disconnect to disconnect the Internet. If Auto Connection is set ON, this button is inactive.
- **Reset:** Reset data usage meter.
- **Data Usage Alert**
 - Show data usage on the device display: Select ON to show data usage meter on your device display.

- Usage Cycle: Select if the data usage meter resets monthly or yearly.
- Data of Month (Year): Select the date when the data usage meter resets.
- Usage Alert: Enter data usage amount and unit. You will see the alert message on your device display when data usage reaches the amount you set here.

Messages

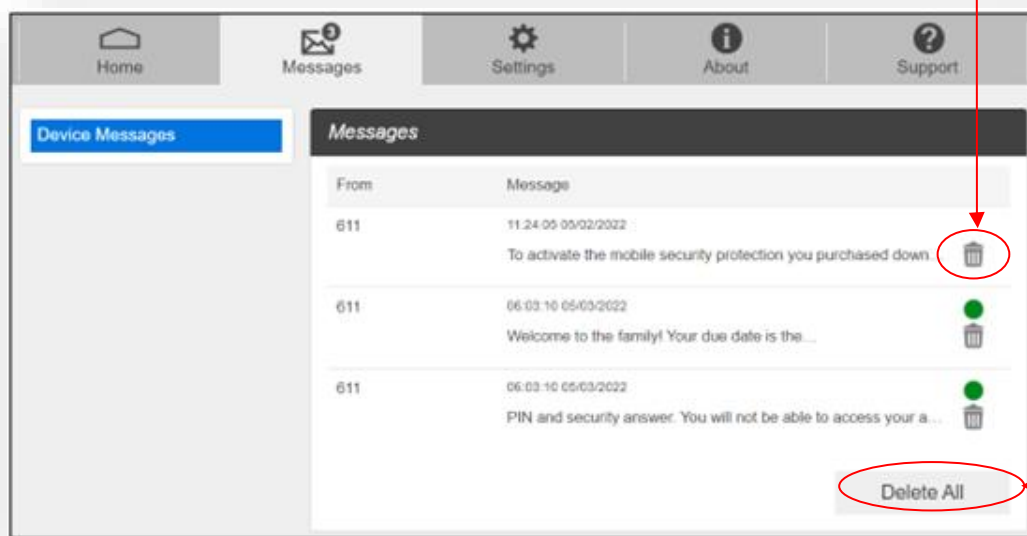
The **messages** page displays SMS messages sent to your device.

Click on the message to see the full message content.

The green dots on the trash bin icon tell you the message is new and has not been read.

To delete a selected message, click the trash bin icon.

To delete all messages, click **Delete All** button.



NOTE Message service is not always available and depends on your service provider's policy for mobile hotspot.

Settings

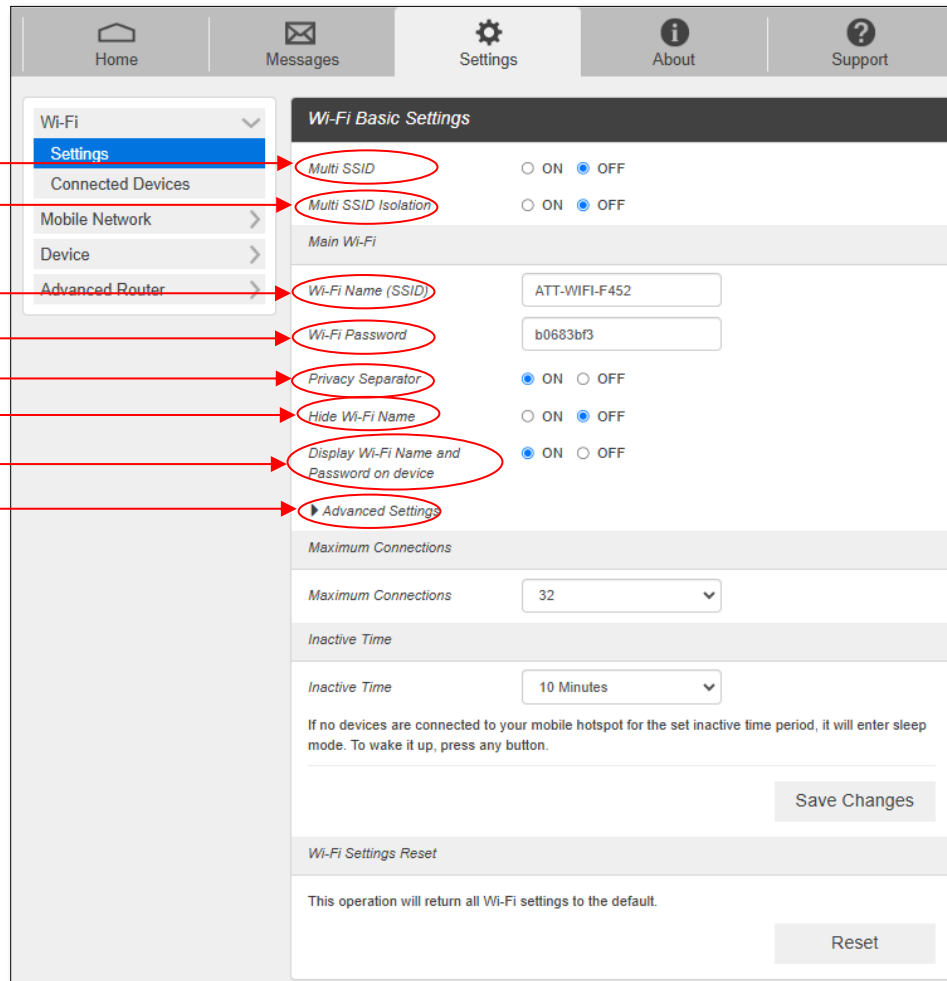
The **Settings** page has the following menu options.

- **Wi-Fi**
- **Mobile Network**
- **Device**
- **Advanced Router**

Wi-Fi

The **Wi-Fi** menu allows you to inspect and modify current Wi-Fi network configurations.

- **Settings:** You can change Wi-Fi network settings.



- Multi SSID: Select **ON** to set up a separate Guest Wi-Fi network.
- Multi SSID Isolation: Select **ON** to prevent your devices from communicating across the Main and Guest Wi-Fi networks.
- Wi-Fi Name: Wi-Fi Service Set Identifier (SSID).
- Wi-Fi Password: The password needs to be at least eight characters long.
- Privacy Separator: Select **ON** to prevent your devices on the same Wi-Fi Name making Local Area Network communication.

NOTE If you connect WLAN printer to your A70, Privacy Separator should be OFF for your connected devices to send files to the printer.

- Hide Wi-Fi Name: Select **ON** to stop the Wi-Fi name broadcasting. If this is set **ON**, you need to manually enter the Wi-Fi name to connect.
- Display Wi-Fi Name and Password: Select **OFF** to remove the Wi-Fi Name and Password display on your mobile hotspot main screen.
- Advanced Settings: Click to change advanced Wi-Fi settings.

▼ Advanced Settings

Wi-Fi Band ☐ 2.4GHz ☒ 5GHz ☐ 6GHz

802.11 Mode

Wi-Fi Channel

Channel Bandwidth

Authentication Method

Encryption Method

- Wi-Fi Band: Select 2.4GHz, 5GHz or 6GHz band of Wi-Fi spectrum.
- 802.11 Mode: Select 802.11 mode from the drop-down list.
- Wi-Fi Channel: Select a Wi-Fi channel from the drop-down list.
- Channel Bandwidth: Select channel bandwidth from the drop-down list.
- Authentication Method: Wi-Fi authentication method can be selected.

WPA2/WPA3 ▼

WPA3

WPA2/WPA3

WPA/WPA2-PSK

WPA2-PSK

OPEN

Mode	Description
WPA3	WPA3 is the latest, updated implementation of WPA2
WPA2/WPA3	Apply both the WPA2 and WPA3 scheme.
WPA/WPA2-PSK	Apply both the WPA-PSK and WPA2-PSK scheme.
WPA2-PSK	WPA-PSK is the securer version of WPA with implementation of the 802.11i standard.
OPEN	Authentication and encryption will not be performed. There are risks that private info will be intercepted or network will be used by unauthorized individuals.

- Encryption Method: Select an encryption method from the drop-down list.

The screenshot shows the 'Guest Wi-Fi' settings interface. Red arrows point to the following elements:

- Guest Wi-Fi** (Section Header)
- Enable Guest Mode** (Web interface access will be restricted) (Checkbox)
- Maximum Connections** (Dropdown menu)
- Inactive Time** (Dropdown menu)
- Wi-Fi Settings Reset** (Section Header)

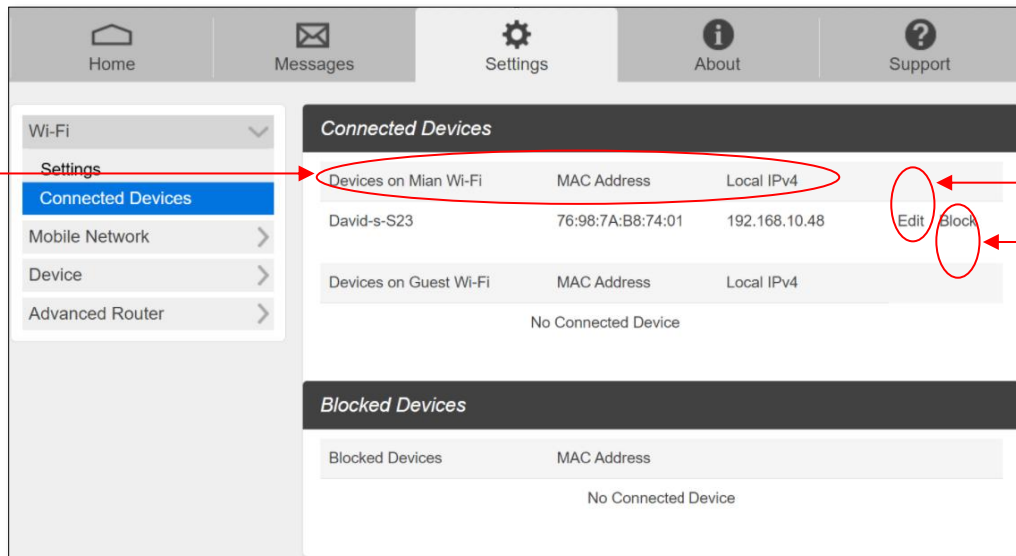
- **Guest Wi-Fi:** If Multi SSID is **ON**, Guest Wi-Fi menu appears. You can change Guest Wi-Fi settings.
- **Enable Guest Mode:** If the box is checked, devices on the Guest Wi-Fi network are not allowed to access **the Web Admin** home page.
- **Maximum Connections:** Choose the maximum number of devices allowed to connect to your mobile hotspot simultaneously.
- **Inactive time:** Your mobile hotspot will enter sleep mode if no devices are connected for set time here to save battery power.

NOTE Default Inactive Time is 10 minutes. If there is no connection to your mobile hotspot for 10 minutes, it enters sleep mode. To resume operation, gently press any button once.

- **Wi-Fi Settings Reset:** Click the **Reset** button to reset all Wi-Fi settings to the factory default.

- **Connected Devices**

The Connected Devices menu contains the following options:



- Devices on Main/Guest Wi-Fi – The names of connected devices
- MAC Address – The MAC address is a unique identifier for each connected device.
- Local IPv4 – Assigned local IPv4 address

To edit device name:

1. Click **Edit**.
2. Update the name of the device and click **OK**.

To block connection:

1. Press **Block** on the list.
2. The devices blocked will be listed on the **Blocked Devices**. The blocked devices will not be allowed to connect to your mobile hotspot Wi-Fi network.
3. To unblock the device, press **Unblock**.

Mobile Network

Mobile Network menu helps you to manage your mobile network settings.

The screenshot shows the 'Mobile Settings' page. On the left is a sidebar menu with options: Wi-Fi, Mobile Network, Mobile Settings (highlighted in blue), APN, SIM, Device, and Advanced Router. The main content area is titled 'Mobile Settings' and contains several sections: 'Manage your mobile broadband data connection' with 'Cellular Data' (ON/OFF toggle, currently ON); 'Manage Connection Mode You Prefer' with 'Auto Connect' (ON/OFF toggle, currently ON); 'Manage Connection Type You Prefer' with 'Connection Type' (dropdown menu showing 'WiFi + USB'); 'Manage Time of Day Access' with 'Time of Day Access' (ON/OFF toggle, currently OFF); and 'Roaming' with 'International Roaming' (ON/OFF toggle, currently OFF). A 'Save Changes' button is at the bottom right. Red arrows originate from the list below and point to each of the five settings mentioned in the list.

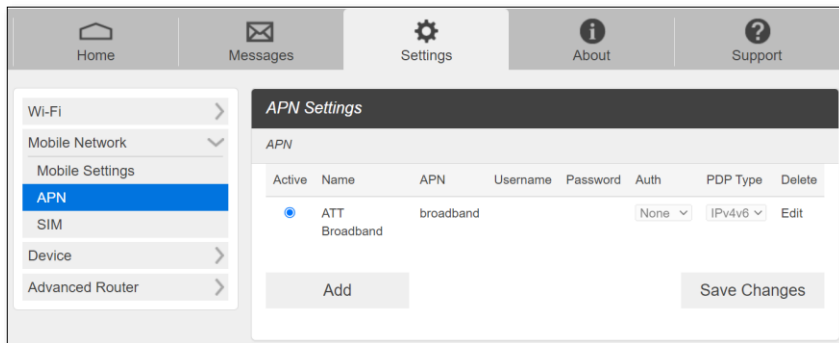
Mobile Settings

- Cellular Data: Selecting **OFF** means your mobile hotspot will not use your mobile network for internet access.
- Auto Connect: Select **ON** to make your device automatically connect to the network when it is powered on. If **OFF** is selected, you need to login to the **Web Admin** home page to connect to the network manually every time you power on your mobile hotspot.
- Connection Type: Select connection type between your devices and your mobile hotspot.
- Time of Day Access: You can set the time windows per day allowing data connection. Once set, your mobile hotspot will not allow data connection beside the time windows.
- International Roaming: Turn International Roaming **ON** or **OFF**.

CAUTION! Allowing international roaming could result in additional service charges. Please contact your service provider for more details.

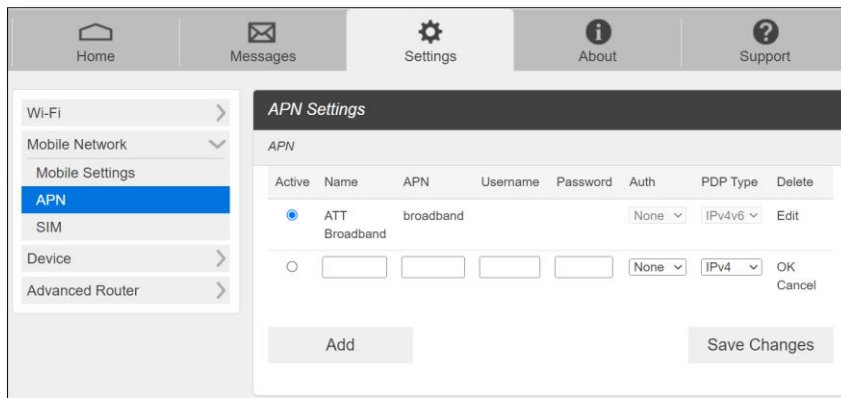
- APN

APN menu shows current APN settings. You can add new APNs.



To add a new APN,

1. Click **Add** to add a line for a new APN information.



2. Enter the related parameters as described in the following table.

Parameters	Description
Name	Enter the APN profile name.
APN	Enter Access Point Name (APN) here. The Access Point Name (APN) is the name to set up a connection to the gateway between your service provider's cellular network and the public Internet.
Username	Username is used to obtain authentication from the ISP when the connection is established.
Password	Password is used to obtain authentication from the ISP when the connection is established.
Auth (Authentication)	Password Authentication Protocol (PAP) provides a simple method without encryption for the peer to establish its identity using a 2-way handshake. Challenge-Handshake Authentication Protocol (CHAP) is used to periodically verify the identity of the peer using a 3-way handshake.
PDP type	Select IP address type supported. IPv4, IPv6, IPv4v6

3. Click **OK** button once completing entering a new APN information.

4. Click **Save Changes** to add the new APN.

Additional APN Options

- To select APN to use, click Active circle, then click **Save Changes**.
- To edit APN info, click **Edit**, change the settings, and then click **Save Changes**.
- To delete APN, click **Delete**.

CAUTION! Changing APN information could result in connection failure. Please contact your service provider before changing the APN.

- **SIM**

The **SIM** menu provides additional security by locking your SIM (Subscriber Identity Module) card with SIM PIN, or by locking / unlocking by your service provider.

The screenshot displays the SIM settings interface. On the left, a sidebar menu lists various settings, with 'SIM' selected and highlighted in blue. A red line and arrow point from the 'SIM Pin Lock' option in the sidebar to the corresponding section in the main content area. The main content area is titled 'SIM' and contains two sections: 'SIM Pin Lock' and 'Carrier Unlock'. The 'SIM Pin Lock' section shows the status as 'Disabled', a dropdown for 'Desired Action' set to 'Enable PIN', and a text input for 'Enter Current PIN'. Below this, it states '3 attempts remain until your sim is PIN unblock code locked.' and includes a warning about incorrect PINs. A 'Save Changes' button is at the bottom right of this section. The 'Carrier Unlock' section shows the status as 'Locked', a dropdown for 'Desired Action' set to 'Carrier Unlock', and a text input for 'Enter Unlock Code'. An 'Unlock' button is at the bottom right of this section.

SIM Pin Lock

The SIM card inside your device can be locked with a PIN code for additional security. If locked, the PIN code must be entered before the mobile hotspot can connect to the Internet whenever you power on your device. You can also change the SIM PIN.

Enter the SIM PIN and press **Save Changes** to save your settings. The SIM Status will be changed to Enabled. Once the SIM PIN Lock is enabled, you need to enter SIM PIN to connect to the mobile broadband network each time you power on your mobile hotspot by logging in the **Web Admin** page.

NOTE Contact your service provider for default SIM PIN code. If you enter the wrong SIM PIN three times, your SIM will be disabled permanently until you enter the PUK code from your service provider.

Carrier Unlock

Your A70 mobile hotspot could be locked by default to be used with a SIM card from your wireless service provider only. To use other SIMs from other wireless service providers, you need to unlock the carrier lock. Contact your service provider for carrier unlock code.

Carrier Unlock

Carrier Unlock will allow the use of SIM from various different carriers.

Carrier Unlock Status

Locked

Desired Action

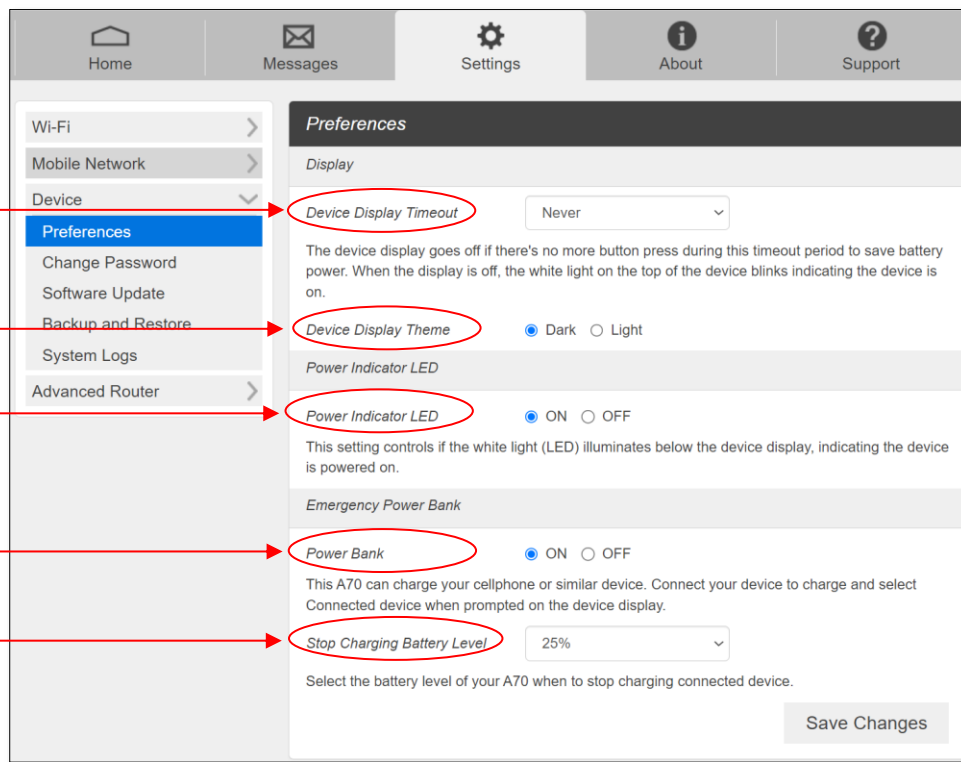
Carrier Unlock

Enter Unlock Code

Unlock

Device

- Preferences



- Device Display Timeout: To conserve battery power, your mobile hotspot has an automatic display sleep timer. By default, the display turns off after 30 seconds of inactivity (no screen touch or button press). Choose a timeout period from the dropdown menu. Disabling this feature will increase battery consumption and reduce operating time.
- Device Display Theme: Select your preferred device display theme: dark or light.
- Power Indicator LED: This setting allows you to choose whether the white light (LED) flashes below the device display to indicate power. When the screen is off, the LED can be used to easily check if the device is still on.
- Power Bank: If **ON** is selected, your mobile hotspot can function as a power bank to charge your phone or other compatible devices. Connect your device and select **Connected device** when prompted on the screen.
- Stop Charging Battery Level: Choose the desired battery level for your mobile hotspot to stop charging the connected device.

- **Change Password**

You can change your **Web Admin** home page login password on this page.

The screenshot shows the 'Change Password' page in the Web Admin interface. The top navigation bar includes Home, Messages, Settings, About, and Support. The left sidebar lists various settings categories, with 'Change Password' highlighted. The main content area is titled 'Change Password' and contains instructions: 'You can change the admin password for your hotspot below. If you enter an incorrect password 5 times in a row, you will be locked out for 3 minutes.' It also provides security guidelines: '* Please set the password between 8 and 16 characters.', '* To increase the security, avoid sequential or duplicated characters.', and '* Recommended to add at least 1 number and 1 special character (!@#%\$_-_)'. There are three input fields: 'Enter Current Password', 'Enter New Password', and 'Confirm New Password'. A checkbox for 'Show input password' is next to the first field. A 'Save Changes' button is at the bottom right.

To change the password:

- Current Password: Enter the current password.
- New Password: Enter the new password.
- Confirm New Password: Enter the new password again.
- Click **Save Changes** to save your settings.

- **Software Update**

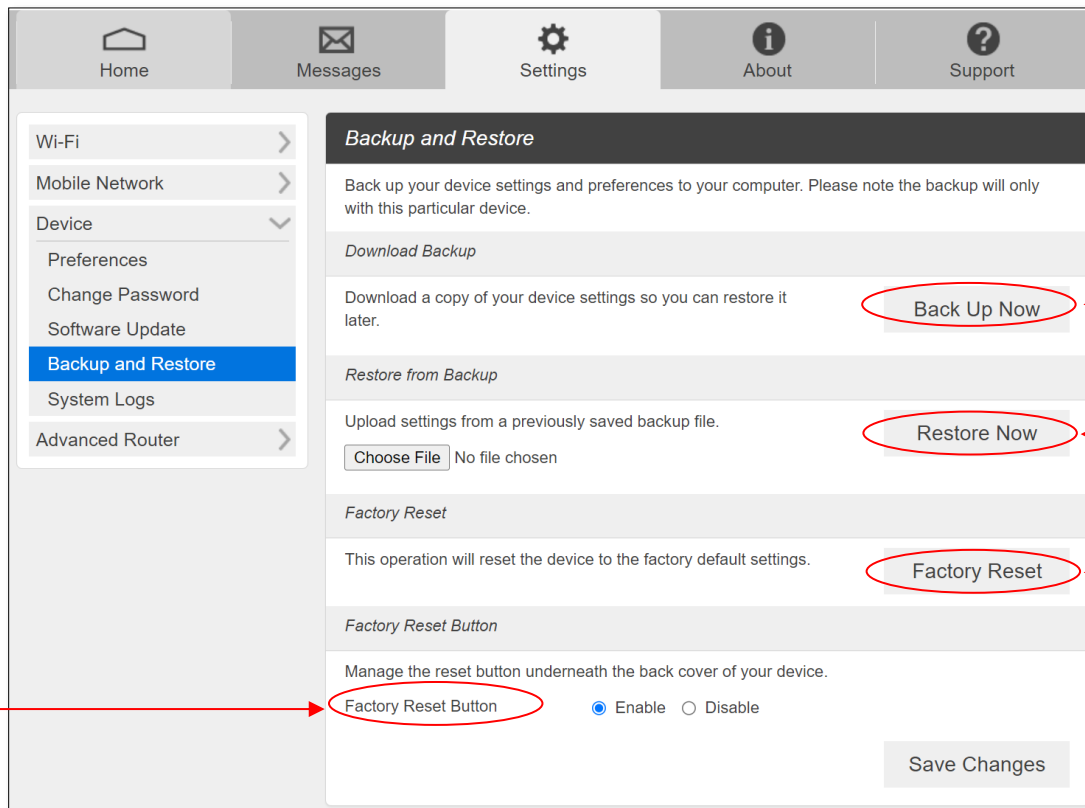
You can find the current software version and check for a new update available.

The screenshot shows the 'Software Update' page in the Web Admin interface. The top navigation bar includes Home, Messages, Settings, About, and Support. The left sidebar lists various settings categories, with 'Software Update' highlighted. The main content area is titled 'Software Update' and contains the following sections: 'Version' showing 'Current Software Version' as 'RG3102.AT.1189'; 'Upload Software' with a 'Choose File' button and 'No file chosen' text, and an 'Update Software' button; and 'Check for New Software' with a 'Check' button.

Manual Update: In case you have a new software file provided by your operator, select the file by pressing **Choose File**, then press **Upload Software** to update your device software.

Automatic Update: Click **Check** button. Message windows will pop up and guide you through the update process.

- Backup and Restore



To back up your device settings into a file to your computer, click **Back Up Now** button. The backup setting file (hotspot_cfg.bin) will be created on the downloads folder of your device.

To restore the device setting from the backup file you made, follow the steps below:

- Click **Choose File** and select the backup file you saved.
- Click **Restore now**. Your mobile hotspot will restart.

To restore all your device settings to its factory default settings, follow the steps below:

- Click **Factory Reset**.
- Click **OK** to confirm the command.

Factory Reset Button: you can disable the physical factory reset button underneath the battery cover. If **Disable** is selected, pressing the button will not perform factory reset.

Advanced Router

Configure LAN, Firewall, and other Router settings.

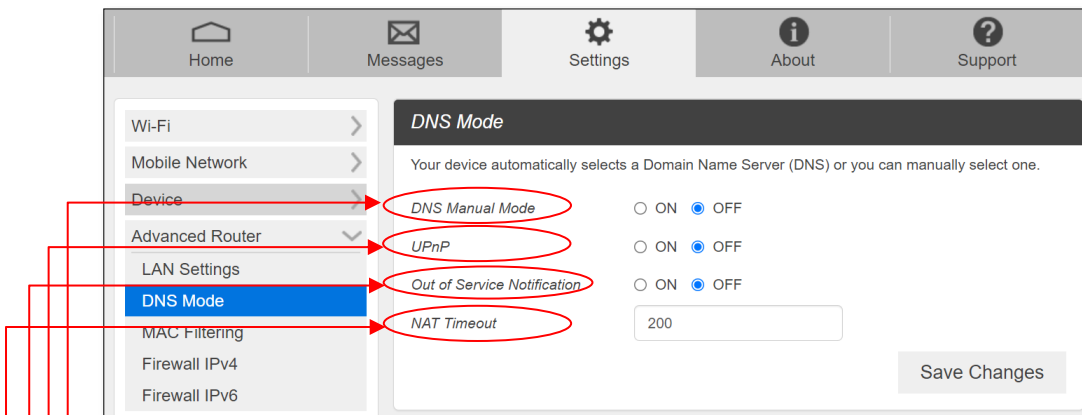
- LAN Settings

The screenshot shows the 'LAN Settings' page in a web admin interface. The left sidebar has a menu with 'LAN Settings' highlighted. The main content area is titled 'LAN Settings' and contains several configuration fields. Red circles and arrows point from the following list items to their corresponding fields in the screenshot:

- IP Address** points to the IP Address field (192.168.10.1).
- Subnet Mask** points to the Subnet Mask field (255.255.255.0).
- VPN Passthrough** points to the VPN Passthrough toggle (ON).
- DHCP Server** points to the DHCP Server toggle (ON).
- DHCP IP Range** points to the DHCP IP Range field (192.168.10.20 to 192.168.10.60).
- DHCP Lease Time** points to the DHCP Lease Time field (43200).

- **IP address** – The IP address for your Mobile Hotspot **Web Admin** page. This is also a default gateway IP of your device.
- **Subnet mask** – The Subnet mask network setting for your mobile hotspot. The default value 255.255.255.0 is standard for small (class “C”) networks.
- **VPN Passthrough** – When turned **ON**, this feature allows VPN clients on your connected device to connect through your mobile hotspot to remote VPN servers.
- **DHCP (Dynamic Host Configuration Protocol) server** – The **DHCP server** is **ON** by default. When turned **ON**, your mobile hotspot automatically assigns local IPs to the devices connected to your mobile hotspot. When turned **OFF**, you will need to set it up manually from the device you want to connect to your mobile hotspot.
- **DHCP IP Range** – Defines the local IP range that DHCP server assigns to connected devices.
- **DHCP Lease Time** - The period between when your connected device obtained its IP address from your mobile hotspot and the time when it expires. When the **DHCP lease time** expires, your connected device automatically releases IP address and asks your mobile hotspot to assign a new one.

- DNS Mode



- **DNS Manual Mode**- Your mobile hotspot uses Domain Name Servers (DNS) assigned by your network by default. The **DNS Manual Mode** option allows you to use your own DNS service if you have.

To manually set a Domain Name Server:

1. Click the **ON** button to enable **DNS Manual Mode**.
2. Enter the IP address of the first DNS in the **DNS 1 IP address** field.
3. Enter the IP address of the second DNS in the **DNS 2 IP address** field.
4. Click **Save Changes** button.

- **UPnP** - Universal Plug and Play (UPnP) is a network protocol that allows compliant devices to automatically set port forwarding rules for themselves. These devices can be personal computers, printers, security cameras, game consoles or mobile devices that communicate with each other and share data over your network.
- **Out of Service Notification**: Notify when DNS service is not working.
- **NAT Timeout** - NAT session timeout is the length of time that the router will keep that connection even if it is inactive. After that, the router will remove the entry and stop accepting the incoming traffic.

- MAC Filtering

The MAC filtering allows only selected devices to access your mobile hotspot Wi-Fi network. By default, MAC filtering is turned **OFF**.

The screenshot shows the A70 mobile hotspot settings interface. At the top, there are five tabs: Home, Messages, Settings, About, and Support. The Settings tab is selected. On the left side, there is a list of settings categories: Wi-Fi, Mobile Network, Device, Advanced Router, LAN Settings, DNS Mode, MAC Filtering (highlighted in blue), Firewall IPv4, and Firewall IPv6. The main content area displays the 'Wi-Fi MAC Filtering' settings. It has a title bar 'Wi-Fi MAC Filtering'. Below the title bar, there are two radio buttons: 'OFF (Allow all devices to access with Password)' and 'ON (Allow only users on permitted list)'. The 'ON' option is selected. Below the radio buttons, there is a table with two columns: 'Permitted Device List' and 'MAC Address'. There is one empty row in the table. To the right of the table, there are 'OK' and 'Cancel' buttons. Below the table, there is an 'Add' button. At the bottom right, there is a 'Save Changes' button.

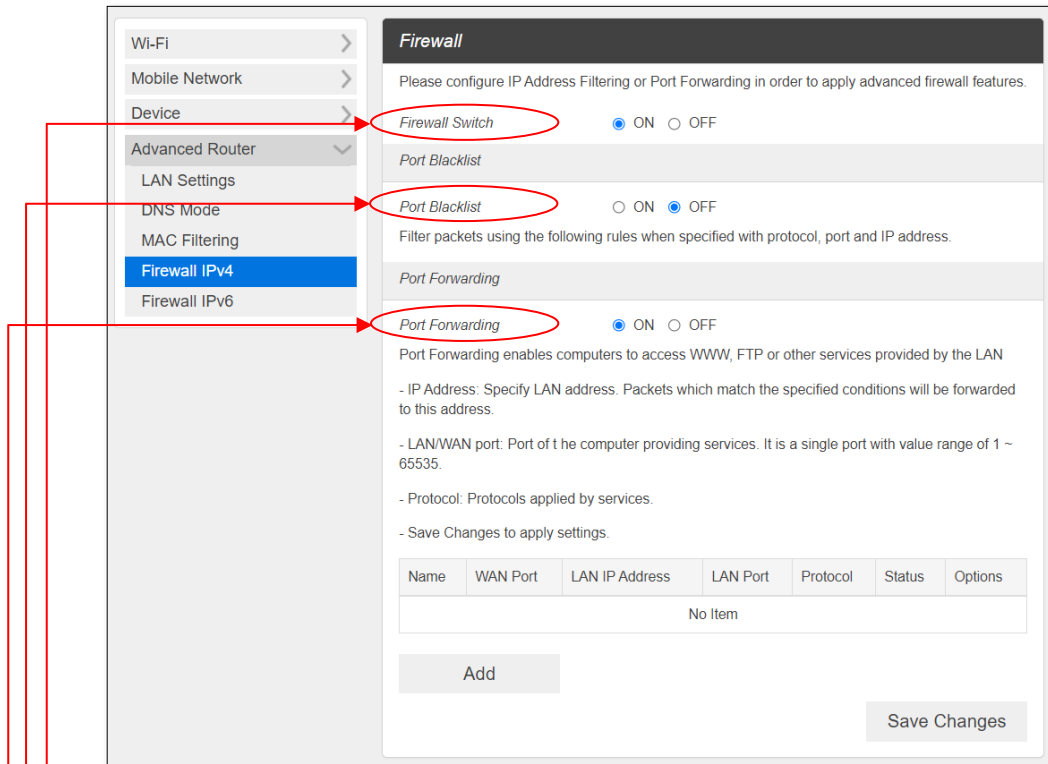
To enable MAC Filtering,

1. Select **ON**.
2. Press **Add** to add a line to enter device name and MAC address, then click OK. When entering MAC addresses, use ":" as the separators (for example, c2:b5:d7:27:fb:9b). To add more, press **Add** to add another line.
3. When completed adding devices, press **Save Changes**.

NOTE If MAC filtering is on and at least one device is listed, only the listed devices can access your A70 Wi-Fi network. MAC filtering has no effect on devices connected via USB connection nor Ethernet connection.

- Firewall IPv4

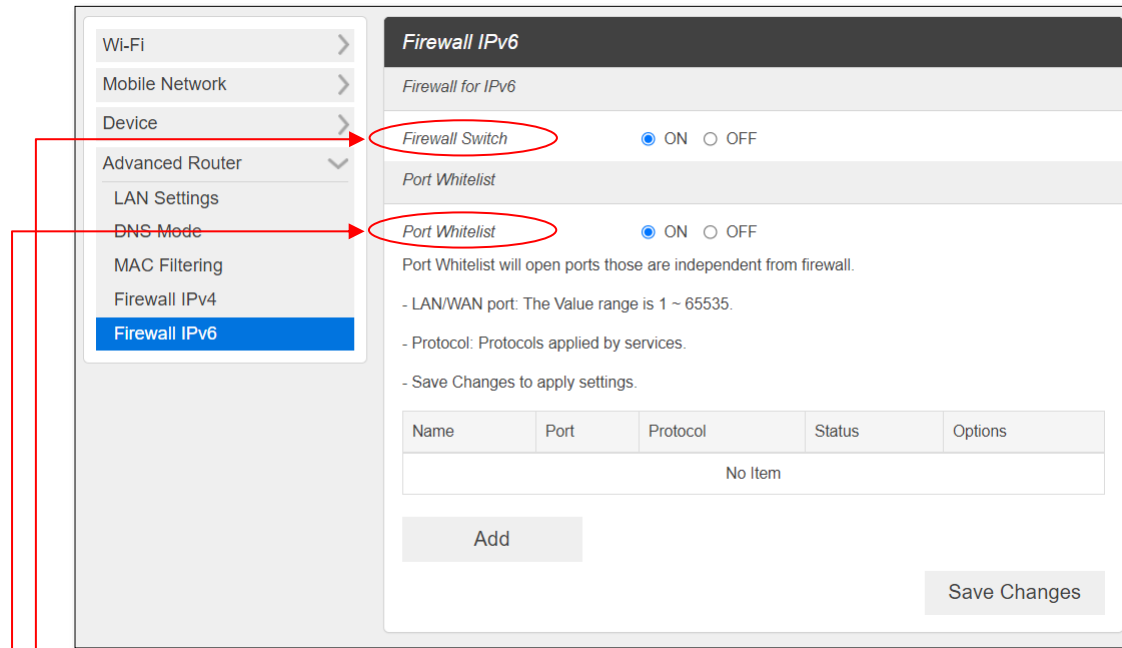
You can set up firewall rules to protect your network from viruses and malicious activity on the Internet.



- **Firewall Switch** – To set up Port Blacklist or Port Forwarding, turn Firewall Switch **ON**. If Firewall Switch is **OFF**, both Port Blacklist and Port Forwarding settings are not active.
- **Port Blacklist** – You can block outbound forward packets by setting up a rule in the blacklist. To set up the rule,
 1. Turn **ON** Port Blacklist.
 2. Press **Add** to create a line to setup a rule.
 3. Enter the name of the rule you want to set up.
 4. Enter the IP address of the site you want to restrict outbound forward packet.
 5. Enter Port number of the outbound forward packet.
 6. Select Protocol and Status **ON/OFF**: **ON** means the rule is in active. **OFF** means the rule is not active.
 7. Press **OK** to complete set up, then press **Save Changes**.
- **Port Forwarding** – You can allow inbound packets for specific port number by setting up port forwarding rule. To set up Port Forwarding,
 1. Turn **ON** Port Forwarding.
 2. Press **Add** to create a line to set up a rule.
 3. Enter the name of the rule you want to set up.
 4. Enter WAN port number of allowed inbound forward packet.

5. Enter LAN IP address your connected device that is assigned by your mobile hotspot.
6. Enter LAN port number of allowed inbound forward packet.
7. Select Protocol and Status **ON/OFF**: **ON** means the rule is in active. **OFF** means the rule is not active.
8. Press **OK** to complete set up, then press **Save Changes**.

- Firewall IPv6



- **Firewall Switch** – To set up Port Whitelist, turn Firewall Switch **ON**. If Firewall Switch is **OFF**, Port Whitelist settings are not active.
- **Port Whitelist** – You can allow inbound forward packet of specific port number by setting up Port Whitelist. To set up Port Whitelist,
 1. Turn **ON** Port Whitelist.
 2. Press **Add** to create a line to set up a rule.
 3. Enter the name of the rule you want to create.
 4. Enter the port number you want to allow inbound forward packet.
 5. Select Protocol and Status **ON/OFF**: **ON** means the rule is in active. **OFF** means the rule is not active.
 6. Press **OK** to complete set up, then press **Save Changes**.

About

View your device's connection information, firmware information, WWAN information, Wi-Fi details and other information.

Home

Messages

Settings

About

Support

Account

My Number

15122179037

ICCID

89011003300087391167

IMSI

313100008739116

IMEI

354907400000632

Wi-Fi Details

Wi-Fi Name

ATT-WIFI-F3A2

Wi-Fi Password

8818c71d

MAC Address

F4:63:49:E9:F3:A2

Encryption

WPA2WPA3 AES

Wi-Fi Devices

1

Max Wi-Fi Devices

32

Broadcast Network Name

Show

Firmware

Software Version

RG3102.AT.1189

Modem Version

RG3102.AT.M1189

Device

Model

RG3102

Manager

mobile.hotspot

Hardware Revision

P1

Power State

Online

Current Voltage

4.199V

Battery Charge Level

100%

Battery Status

Charged

WWAN Info

IP Address

10.66.116.0, 2600:381:3382:5b57:815d:1306:3c05:3224

Lifetime Transferred

40.87 GB

Save to File

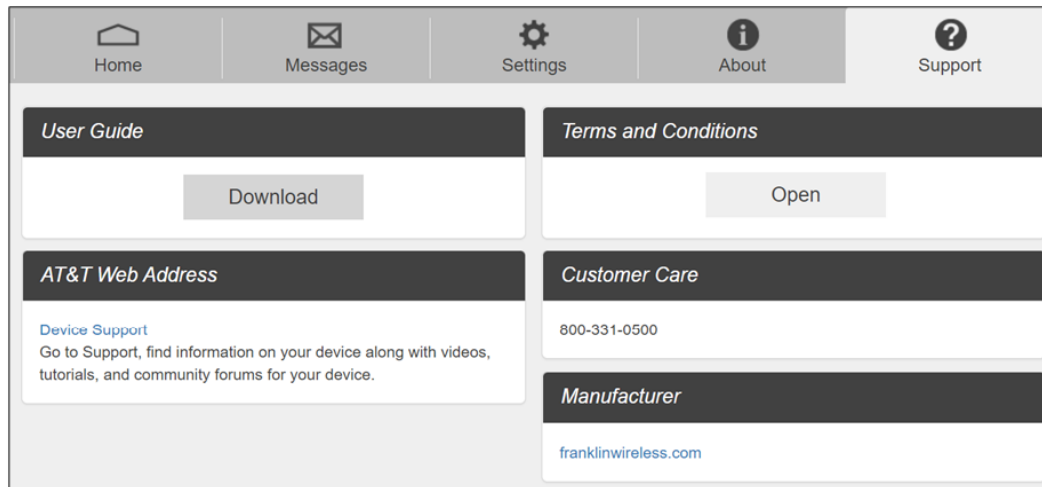
Debug Info

View detailed diagnostic information about your device.

Debug

Support

Obtain support information from the **Web Admin** page Support Tab.



4



Troubleshooting

Overview
First Steps
Frequently Asked Questions (FAQ)

Overview

The following tips can help solve many common problems encountered while using your Mobile Hotspot, A70.

First Steps

- 1 Make sure you are using your A70 in the correct geographic region (within coverage of your service provider).
- 2 Ensure that your wireless coverage extends to your current location by using the interactive Wireless Carrier's coverage map tool.
- 3 Ensure that you have an active service plan.
- 4 Restarting your computer and your A70 can resolve many issues.

IMPORTANT! Before contacting customer care, be sure to restart both your A70 and any host devices that are currently connected to your A70.

Frequently Asked Questions (FAQ)

A70 is just powered off without pressing the Power/Menu button. Why?

This may occur under battery depletion or overheating from excessive usage for a long time. To restore power, manually press and hold the power button to turn on your A70. If the battery is depleted, charge the battery with the AC charger provided.

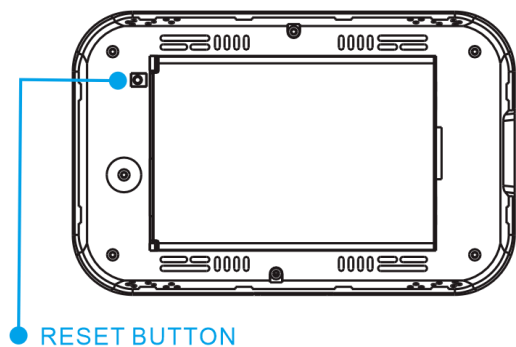
IMPORTANT! If the power button will not start your A70, please open the battery cover, take out the battery and re-install the battery after 5 seconds. Put the battery cover back and turn on the A70 by pressing the power button.

How do I perform Factory Reset?

Using Web Admin Home page: Connect to your A70 and then open **Web Admin** home page (<http://mobile.hotspot>). Select **Settings > Device > Backup and Restore** and Click **Factory Reset**.

Using Mobile Hotspot Device Menu: Select **Settings** on the device menu, then go to Factory Reset menu. Select **OK** to perform Factory Reset.

Using the Factory Reset Button on the device: Remove the battery cover. Make sure the battery is installed and your A70 is powered on. Press down the reset button for 3 seconds and release. Then, your A70 will perform the reset and restart automatically.



I cannot connect to Wi-Fi after changing my Wi-Fi password.

Your Wi-Fi devices save the previously used Wi-Fi names associated with the passwords used to access the Wi-Fi name. When you change the Wi-Fi password only for your A70 and keep the same Wi-Fi Name, the devices try to connect to your A70 using the Wi-Fi name and previous Wi-Fi password saved, causing Wi-Fi authentication error. Perform “forget” first on the Wi-Fi name from your host devices.

I cannot access the Web Admin, <http://mobile.hotspot>, or <http://192.168.10.1>

Ensure that Wi-Fi connection is enabled on your device and that you have selected the correct Wi-Fi name (SSID) for your A70 connection. Also, make certain that you are entering the correct full URL address, <http://mobile.hotspot> or <http://192.168.10.1>.

If you changed the LAN IP settings from the **Web Admin, Settings > Advanced Router > LAN Settings** before, you need to use the IP address you changed to access the **Web Admin** page.

I cannot log into Web Admin, <http://mobile.hotspot>

Ensure that you are entering the correct **Web Admin** password to log in. The default **Web Admin** login password is **admin** unless you have previously changed. If you have forgotten your password, perform Factory Rest on your device (see How do I perform Factory Reset?).

5



Regulatory Information

Regulatory Statements
Safety Hazards

Regulatory Statements

FCC Equipment Authorization ID: XHG-RG3102

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

SAR Information

The exposure standard for your device uses a unit of measurement called the Specific Absorption Rate ("SAR").

SAR is the unit of measurement for the amount of RF energy absorbed by the body when using a mobile device. Although the SAR is determined at the highest certified power level, the actual SAR value of the device while in operation can be well below the level reported to the FCC. This is due to a variety of factors including its proximity to a base station, the design of the device and other factors. What is important to remember is that each device meets strict Federal Government guidelines. Variations in SARs do not represent a variation in safety. All devices must meet the federal standard, which incorporates a substantial margin of safety. SAR values at or below the federal standard of 1.6 watts/kg (W/kg) are considered safe for use by the public. This product meets the current FCC Radio Frequency Exposure Guidelines.

Additional details at FCC website:

www.fcc.gov/oet/ea

Body-Worn Operation

Please note this important safety information regarding radio frequency (RF) radiation exposure and near-body operation. To ensure compliance with RF exposure guidelines, the device must be used at least 10 mm from your body. Failure to observe this warning could result in RF exposure exceeding the applicable guideline limits.

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.

FCC CAUTION: Any changes or modification not expressly approved by the party responsible for compliance could void the user's authority to operate this equipment.

NOTE: The Radio Frequency (RF) emitter installed in your modem must not be located or operated in conjunction with any other antenna or transmitter, unless specifically authorized by Franklin Wireless.

Safety Hazards

Follow Safety Guidelines

Always follow the applicable rules and regulations in the area in which you are using your device. Turn your device off in areas where its use is not allowed or when its use may cause interference or other problems.

Electronic Devices

Most modern electronic equipment is shielded from radio frequency (RF) signals. However, inadequately shielded electronic equipment may be affected by the RF signals generated by your device.

Medical and Life Support Equipment

Do not use your device in healthcare facilities or where medical life support equipment is located as such equipment could be affected by your device's external RF signals.

Pacemakers

- The Health Industry Manufacturers Association recommends that a minimum separation of six inches must be maintained between a device and a pacemaker in order to avoid potential interference with the pacemaker. These recommendations are consistent with the independent research by and recommendations of Wireless Technology Research. Persons with pacemakers should always follow these guidelines:
- Always keep the device at least six inches away from a pacemaker when the device is turned on.
- Place your device on the opposite side of your body where your pacemaker is implanted in order to add extra distance between the pacemaker and your device.
- Avoid placing a device that is on next to a pacemaker (e.g., do not carry your device in a shirt or jacket pocket that is located directly over the pacemaker).
- If you are concerned or suspect for any reason that interference is taking place with your pacemaker, turn your device OFF immediately.

Hearing Devices

When some wireless devices are used with certain hearing devices (including hearing aids and cochlear implants) users may detect a noise which may interfere with the effectiveness of the hearing device.

Use of Your Device while Operating a Vehicle

Please consult the manufacturer of any electronic equipment that has been installed in your vehicle as RF signals may affect electronic systems in motor vehicles.

Please do not operate your device while driving a vehicle. This may cause a severe distraction, and, in some areas, it is against the law.

Use of Your Device on an Aircraft

Using your device during flight may violate FAA regulations. Because your device may interfere with onboard electronic equipment, always follow the instructions of the airline personnel, and turn your device OFF when instructed to do so.

Blasting Areas

In order to avoid interfering with blasting operations, your device should be turned OFF when in a blasting area or in an area with posted signs indicating that people in the area must turn off two-way radios. Please obey all signs and instructions when you are in and around a blasting area.

Proper Battery & Adapter Use and Disposal

- Do not disassemble or open crush, bend or deform, puncture or shred.
- Do not modify or remanufacture, attempt to insert foreign objects into the battery, immerse or expose to water or other liquids, expose to fire, explosion, or another hazard.
- Only use the battery for the system for which it is specified.
- Only use the battery with a charging system that has been qualified with the system per CTIA Certification Requirements for Battery System Compliance to IEEE 1725. Use of an unqualified battery or charger may present a risk of fire, explosion, leakage, or another hazard.
- Do not short circuit a battery or allow metallic conductive objects to contact battery terminals.
- Replace the battery only with another battery that has been qualified with the system per this standard, IEEE-Std-1725. Use of an unqualified battery may present a risk of fire, explosion, leakage, or another hazard. Only authorized service providers shall replace the battery.
- Promptly dispose of used batteries in accordance with local regulations.
- Battery usage by children should be supervised.
- Avoid dropping the battery. If the battery is dropped, especially on a hard surface, and the user suspects damage, take it to a service center for inspection.
- Improper battery use may result in a fire, explosion, or another hazard.
- The host device shall only be connected to CTIA certified adapters, products that bear the USB-IF logo or products that have completed the USB-IF compliance program.

Document Revision History

Revision: Rev 1.1

Date: January 2025

6



Glossary

Glossary

Term	Definition
5G NR	5 th Generation New Radio
LTE	Long-Term Evolution
802.11(b/g/n/ac/ax/be)	A set of WLAN communication standards in the 2.4GHz frequency band, 5GHz frequency band and 6GHz frequency bands.
Bps	Bits per second
Broadband	High capacity, high-speed transmission channel with a wider bandwidth than conventional modem lines.
DHCP	Dynamic Host Configuration Protocol
DHCP Server	A server or service with a server that assigns IP addresses.
DNS	Domain Name System
Firmware	A computer program embedded in electronic devices. Firmware usually contains operating code for the device.
GB	Gigabyte
Hotspot	A Wi-Fi (802.11b/g/n/ac) access point or the area covered by an access point.
HTTP	Hyper Text Transfer Protocol
IMEI	International Mobile Equipment Identity
IMSI	International Mobile Subscriber Identity
IP	Internet Protocol
IP Type	The type of service provided over a network.
IP Address	The address of a device attached to an IP network.
ISP	Internet Service Provider
Kbps	Kilobits per second
LAN	Local Area Network
MAC Address	Media Access Control address
Mbps	Megabits per second
Network Operator	The vendor who provides your wireless access.
Port	A virtual data connection used by a program to exchange data.
Port Forwarding	A process that allows remote devices to connect to a specific computer within a private LAN.
Port Number	A 16-bit number used by the TCP and UDP protocols to direct traffic.
Protocol	A standard that allows connection, communication, and data transfer between computing endpoints.
Proxy	A firewall mechanism that replaces the IP address of a host on the internal (protected) network with its own IP address.
Router	A device that directs traffic from one network to another.
SIM	Subscriber Identification Module
SSID	Service Set Identifier
TCP/IP	Transmission Control Protocol/Internet Protocol
USB	Universal Serial Bus
VPN	Virtual Private Network
WLAN	Wireless Local Area Network
WWAN	Wireless Wide Area Network