## **C801 4G Router**

**User Guide** 



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## Introduction

The following topics describe the basics of using this guide and your new broadband device.

## **Before You Begin**

Thank you for purchasing your new C801 4G Router!

The following topics explain how best to use this guide to get the most out of your broadband device.

## **Before Using Your Device**

Read Safety and Notices thoroughly for proper usage.

Accessible services may be limited by subscription contract conditions.

## **Guide Usage Notes**

Note that most descriptions in this guide are based on your device's default settings at the time of purchase.

## **Screenshots and Key Labels**

Screenshots and Key labels are provided for reference only. Actual windows, menus, etc. may differ in appearance.

## **Other Notations**

In the user guide, the broadband device may be referred to either as "C801," "router," or "device".

## **Compatible Operating Systems (OS)**

The table below outlines the compatible operating systems (OS) for your device. Use outside these environments may affect performance. Additional factors (hardware, connected peripherals, installed applications, etc.) may also affect performance.

- For computer support, OS version upgrade information, etc., see the corresponding manufacturer's product support documentation.
- The information for operating system (compatible OS) listed below is the current information for your device sold as of Jan.2017.

Item	Description
	Windows 7, 8, 10
Compatible operating systems (OS)	MacOS 10.5 or later
	Android 2.1 or later
	Android 2.1 or later

Item	Description
	Chrome 36.0 or later
Compatible browcore	Internet Explorer 8.0 or later
	Firefox 3.1 or later
	Safari 5.0 or later

## **Package Contents**

See below for details on everything you will find in the box for your C801.

- C801 4G Router
- A pair of external antennas
- AC Adapter
- Get Started Guide
- Important Information Booklet

### **Additional Information**

The following list describes additional information before you begin using your C801.

- Your broadband device accommodates software updates. Always use the latest software.
- Note that connection speeds may drop or connections may be disabled depending on line traffic or connection environments.

# **Get Started**

The following topics give you all the information you need to set up your device and wireless service for the first time.

## **Parts and Functions**

Learn your device's primary parts and functions.

## **Device Layout**

The following illustration outlines your device's primary external features and buttons.

#### **Frontal View**







#### **Rear View**



Part	Description
SIM card slot	Install the SIM card.
Micro USB port	Power on device by plugging in micro USB to device and AC adapter end to power outlet
Reset button	Located on the side of device. Press and hold until all lights blink to factory reset your device. (Device must be On when pressing reset button.)
External antennas	Attach provided antennas to the sides of device for optimal speeds.
Serial port	Connect the serial cable to utilize the Out of Band Feature.
LAN port (PoE Compatible)	Connect one end of ethernet cable here and other end to desired device depending on your network.
WAN port (PoE Compatible)	Connect one end of ethernet cable here and other end to desired device depending on your network.
LED Light Indicators	Indicates the status and activity of your router.

## **LED Light Indicators**

The LED Light Indicators on the front of the device will show the status of C801's power, signal strength, WAN activity, and LAN activity.

lcon	Description		
רוח	Green : Power On		
	No Light : Power Off		
	Red : No service		
Tull	Yellow : Moderate Service Area		
	Green : Good Service Area		
	Green (Solid) : WAN connected. No data transmission.		
WAN	Green (Blink) : WAN connected. Data is being transferred.		
	No Light : WAN not connected		
LAN	Green : LAN connected		
	No Light : LAN not connected		

## **Data Transfer Volume and Transfer Speed**

Wireless Mode	Maximum Downlink Speed	Typical Downlink Speed
4G/LTE	1 <i>5</i> 0 Mbps	50 Mbps

Note: Actual speeds depend on several factors, including network conditions.

## SIM Card

The SIM card is an IC card containing your device's phone number and other customer information.

Note: Your device's SIM card is preinstalled.

## Handling a SIM Card

Keep the following in mind when handling a SIM card.

- Customer is responsible for any damage caused by inserting the SIM card in another-brand IC card reader, etc. The company is not responsible in such case.
- Always keep the IC chip clean.
- Wipe clean with a dry, soft cloth.
- Avoid applying labels. May damage the SIM card.

- See instructions included with the SIM card for handling.
- The SIM card is the property of the company.
- The SIM card is replaceable (at cost) in case of loss/damage.
- Return the SIM card to the company when cancelling subscription.
- Returned SIM cards are recycled for environmental purposes.
- Note that SIM card specifications and performance may change without notice.
- It is recommended that you keep a separate copy of information that is stored on the SIM card. The company is not responsible for damages from stored information that is lost.
- Always follow emergency procedures to suspend service if your SIM card or device (SIM card inserted) is lost or stolen. For details, contact Customer Service.
- Always power off the broadband device before inserting or removing the SIM card.

## **Device Setup**

The following topics outline basic features and operations of your device.

## Install and Remove the SIM card

Locate the SIM slot which is on the right side of the device and follow the steps below:

## 1) Install the SIM card

a) Insert SIM card into SIM slot, notch end first and gold contacts facing down. (Refer to engraving next to the SIM slot)

b) Gently insert the SIM into the slot until you hear a click.



## 2) Remove the SIM card

- a) Gently push the SIM card until you hear a click.
- b) The SIM card will now be sticking out



## **Attach Antennas**

a) Align the antennas with the antenna posts which are located on the sides of the device.

- b) Twist the antennas on and make sure they are secure.
- c) You may carefully adjust the antenna to improve signal.



## **Power Device On or Off** 1) Power your device on

#### **Option 1: Using the included AC Adapter**

Plug in the AC Adapter to the power outlet and plug the micro USB end to the C801's micro USB port, which is located at the back of the device. Once connected, a green light will appear above the power icon.



#### Option 2: Use a PoE (Power over Ethernet) connection

Note: The C801 can be powered through Ethernet cable connected to a PoE power source such as PoE injector, PoE enabled router etc.. When powered through Ethernet cable, you don't need to connect the AC adapter to C801.

Connect PoE powered Ethernet cable to either WAN or LAN port as needed for your network. Once powered On, a green light will appear above the power icon on the device. C801 will be powered on.



#### 2) Power your device off

Your device will power off once AC adaptor or PoE connection is unplugged.

#### **Restart Your Device**

If you are experiencing problems with your device, try restarting your device.

Note: If you are still experiencing problems, locate the Reset button on the side of the device. Press and hold while device is On until the front LED lights start blinking to Factory Reset the device.



## Wiring your C801

Note: Options below are setup instructions for basic use cases. Depending on desired use case or user's current network setup, setup may differ from options below.

## Wiring your device

### Option 1: Using your C801 as failover backup

Note: Ethernet cables are not included.



a) Connect one end of the ethernet cable to the LAN port of your Modem that provides a connection to the internet.

b) Then connect the other end to the WAN port of the C801.

c) Using another Ethernet cable, connect one end of the cable to the LAN port of the C801, and connect the other end of the cable to device requiring failover backup.

d) Next, access the Web UI, Log in and click the **Settings Tab**. (See Settings in this guide for access to Web UI and **Admin Log** In which is under Settings for Log in information.)

e) While in Settings, click Connection settings menu on the left in the Router menu pane.

f) Then set the **WAN Preference** to **Ethernet+LTE Backup** and click Save Changes.

Router 💊	Connection Settings	Connection Settings		
Connection Settings	Manage Connection Setting	Manage Connection Settings		
OOB Settings Remote Management LAN Settings Firewall Settings	WAN Preference Ping Interval (seconds)	Ethernet + LTE Backup		
Mobile Network	Ping Retry Count	5		
Device	Response Host	Default O User Set		
			Save Changes	

## Option 2: Using your C801 as main connection to internet

Note: Ethernet cables are not included.

- a) Connect one end of the ethernet cable to C801's LAN port.
- b) Then connect the other end to device requiring internet connection.



c) Next, access the Router Manager, Log in and click the Settings Tab. (See Settings in this guide for access to Web UI and Admin Log In which is under Settings for Log in information.)

Router	$\sim$	Connection Settings			
Connection Settings		Manage Connection Preference.			
OOB Settings Remote Management LAN Settings Firewall Settings		WAN Preference	LTE Only	٣	Save Changes
Mobile Network	>				
Device	>				

# Settings

The following topics provide an overview of items you can change using the device **setting** menu accessed through the Web UI.

#### **Web UI Overview**

Use the device Web UI in a browser to check or change your C801 settings from a device connected via Wi-Fi.

#### Web UI Window

Explore the options available through the device's Web UI window.

- 1. Connect your C801 to an external device via a LAN connection.
- 2. Launch a browser and access the Web UI via http://myrouter or http://192.168.128.1 .
  - The Web UI launches and displays the main window.

#### Home

Check current status of network connection and data usage on the Home page.

From the Web UI, click the Home tab. (For connection information, see Web UI Overview.)

Franklin Wireless				
/elcome to your C80	)1	E	nglish 🗸 🗸	Log i
Home	Settings	<b>i</b> About	<b>?</b> Support	
WAN		Network status		
Link	•	Status	Not Active	
Connected Time		Current WAN Interface	-	
Response Time(ping)	-	WAN Preference	Ethernet + LTE	
WAN IP				
LTE				
Link	Disconnected			
Network	Disconnected			
Signal	Ø			
Connected Time	-			
Data Used	0 Byte			
	Connect			

## Admin Log in

Accessing other menus from the home screen requires admin log in.

1. Click "Log in" on the upper right corner of the main screen to log in. (clicking other menu on the main screen will prompt the log in page as well.)

Enter Your Password				
Password				
		Login	Cancel	
If too many incorrect passwords are tried, access will be suspended				

2. Enter the password and click "Login".

Note: The default password is "password." It's recommended to change the password for your security.

### **Settings Tab**

Set your device options, including Router, Mobile Network and Device.

#### Router

#### **Connection Settings**

Set the Connection Settings for your device.

1. From the Web UI, click **Settings**>Router>Connection Settings to display the manage connection preference parameters.

Home	Settings	<b>1</b> About	<b>?</b> Support
Router Connection Settings	Connection Setting	<b>S</b> Terence.	
OOB Settings Remote Management LAN Settings Firewall Settings	WAN Preference Ping Interval (seconds)	Ethernet + LTE Backup  Ethernet + LTE Backup Ethernet Only LTE Only	
Mobile Network	Ping Retry Count	5	
Device	Response Host	Oefault User Set	Save Changes

■ WAN Preference: Select the preference for your wide access network connection.

- Ethernet + LTE Backup: This setting will prioritize Ethernet connection as the main source of internet and failover to LTE when connection is lost. (Once the Ethernet connection is restored, the C801 will failback to Ethernet connection.)
- Ethernet Only: This setting will only allow Ethernet connection as the primary source of internet.
- LTE Only: This setting will only allow LTE as the primary source of internet.

Note: Items below only apply when **WAN Preference** is set to **Ethernet + LTE Backup** mode.

Depending on the settings below, ping packet is sent to the response host address through Ethernet interface.

If ping is successful, connection will be made via ethernet. If not, device will failover to LTE connection.

- Ping Interval (seconds) : Set how often the device is to ping in seconds.
- Ping Retry Count: Set the number of times the device should ping.
- **Response Host**: Set the host address.
  - Default: Ping is sent and received at the default host address
  - User Set: Set the desired host name / IP address
- 2. Click Save Changes to save your settings.

#### **OOB Settings**

1. From the Web UI, click **Settings**> **Router**>**OOB Settings** to display the device information shown in the following figure.

Router	$\sim$	OOB Settings		
Connection Settings		Manage OOB settings.		
OOB Settings				
Remote Management		OOB Enable	ON OFF	
LAN Settings				Save Changes
Firewall Settings				
Mobile Network	>			
Device	>			

2. If ON is selected for OOB Setting, an extra menu will appear like below.

$\sim$	OOB Settings			
	Manage OOB settings.			
	OOB Enable	ON OFF		
	Baud Rate (bps)	115200	•	
	Databit	8	•	
>				
>	Stopbit	0	•	
	Parity	Even	•	
				Save Changes
	>	<ul> <li>OOB Settings</li> <li>Manage OOB settings.</li> <li>OOB Enable</li> <li>Baud Rate (bps)</li> <li>Databit</li> <li>Stopbit</li> <li>Parity</li> </ul>	OOB Settings          Manage OOB settings.         OOB Enable          • ON ● OFF          Baud Rate (bps)          115200          Databit          8          Stopbit          0          Parity       Even	OOB Settings       Manage OOB settings.       OOB Enable       Baud Rate (bps)       115200       Databit       8       Stopbit       Parity   Even ▼

Please configure the C801 Out of Band settings to match your router configuration. Your router should have the following information below.

- Baud Rate(bps) : Input and output baud rate
- Databit : Character size mask
- Stopbit : stop bits. If enable, send two stop bits, else one.
- Parity : parity bit. Odd or even.
- 3. Click Save Changes to save your settings.

#### Remote Management

1. From the Web UI, click **Settings**> **Router**>**Remote Management** to display the device information shown in the following figure.

Router	$\sim$	Remote Managemer	ıt	
Connection Settings OOB Settings		Manage Remote Admin.		
Remote Management		Remote Admin	ON OFF	
LAN Settings				Save Changes
Firewall Settings				
Mobile Network	>			
Device	$\rightarrow$			

If ON is selected for Remote Management, user will be able to access the C801's webpage remotely via HTTPS. The standard port is 443.

Router	$\sim$	Remote Management			
Connection Settings OOB Settings		Manage Remote Admin.			
Remote Management		Remote Admin	● ON ● OFF		
LAN Settings		Https Port	443		
Firewall Settings				Save Changes	
Mobile Network	>			Cave Onlanges	
Device	$\rightarrow$				

2. Click Save Changes to save your settings.

#### LAN Settings

1. From the Web UI, click **Settings**> **Router**>**LAN Settings** to display the information shown in the following figure.

Router	$\sim$	LAN Settings					
Connection Settings		Manage your mobile broadband data connection					
OOB Settings Remote Management		IP Address	192.168. 128 . 1	Network Access Identifier			
LAN Settings		Subnet Mask	255.255.255.0				
Firewall Settings		0//08 04545					
Mobile Network	>	DHCP Server	• ON OFF				
Device	>	DHCP IP Range	192.168. 128 . 10 ~	192.168. 128 . 100			
		DHCP Lease Time	86400				
		DNS Manual Mode	ON OFF				
		NAT Timeout	300				
				Save Changes			

- 1) **IP Address**: IP address for Web User Interface.
- 2) Subnet Mask: Subnet mask for the IP address.
- 3) **DHCP Server**: Enable or disable DHCP Server function.
- 4) **DHCP IP Range**: Allocate begin and end IP address for IP Range.

5) **DHCP Lease Time**: Define how long the leased IP address will be in use before expiration. The new IP address will be assigned.

- 6) DNS manual mode: Turn DNS manual mode on or off.
- 7) NAT Timer: Set TCP NAT time.
- 2. Click Save Changes to save your settings.

#### **Firewall Settings**

1. From the Web UI, click **Settings>Router>Firewall Settings**. The Settings page is shown in the following figure.

Router	$\sim$	Firewall		
Connection Settings		IP address filter function and WAN port ping reply function are only available when firewall is		
OOB Settings		enabled.		
Remote Management		Firewall Switch ON OFF		
LAN Settings		Save Changes		
Firewall Settings		Save changes		
Mobile Network	>			
Device	>			

2. If ON is selected for Remote Management, an extra menu will appear like below.

IP Address Filtering								
<ul> <li>IP Address Filtering ● ON ● OFF</li> <li>Filter packets using the following rules when specified with protocol, port and IP address.</li> <li>LAN/WAN port: The Value range is 1 ~ 65535.</li> <li>Settings not enabled until applied.</li> </ul>								
Name	WAN IP Add	Iress	WAN P	ort	Proto	col	Status	Options
			No	o Item				
,	Add							
Portmappi	ng							
Portmappin Portmappin	ng ng enables com	Ol oputers to acce	N 🔵 OF	FF V, FTP oi	other	services	provided by	the LAN
- IP Addres to this add	ss: Specify LAN ress.	address. Pac	kets whic	ch match	the spe	ecified co	onditions will	be forwarded
- LAN/WAN port: Port of t he computer providing services. It is a single port with value range of 1 $\sim$ 65535.								
- Protocol: Protocols applied by services.								
- Settings not enabled until applied.								
Name	WAN Port	LAN IP Add	ess	LAN Po	ort	Protocol	Status	Options
			No	oltem				

Add

### **Mobile Network**

Mobile Network Settings should only be used as directed by Customer Service personnel.

#### **Mobile Settings**

1. From the Web UI, click **Settings>Mobile Network>Mobile Settings**. The Mobile Settings page is shown in the following figure.

Router	>	Mobile Settings					
Mobile Network	$\sim$	Manage your mobile bi	Manage your mobile broadband data connection				
Mobile Settings APN SIM		Cellular Data	ON OFF	Turn off cellular data to prevent all internet traffic from using the mobile broadband connection			
Advanced		Manage Connection M	ode You Prefer				
Device	>	Auto Connect	• ON OFF	Select auto-connection			
				Save Changes			

- 2. **Cellular data**: Turn Cellular data on or off. Turn it off to prevent all Internet traffic from using the mobile broadband connection.
- 3. Auto Connect: Turn the device on or off to automatically connect to the network.
- 4. Click Save Changes to save your settings.

#### APN

1. From the Web UI, **click Settings>Mobile Network>APN**. The default **APN** parameters are shown in the following figure. You can use the default APN to connect to the Internet. You can also add new APNs.

Router	>	APN Se	ettings						
Mobile Network	$\sim$	Active	Name	APN	Username	Password	Authe	ntication	Delete
Mobile Settings			internet	internet			None	-	
APN		۲	memet	memet			None	•	
SIM			۸dd					Savo	Changes
Advanced			Auu					Save	Jianges
Device	>								

- To add a new APN, follow the steps below:
  - 1) Click Add to access the following page.

APN S	ettings					
Active	Name	APN	Username	Password	Authentication	Delete
۲	internet	internet			None <b>v</b>	
					None <b>v</b>	OK Cancel
	Add				Save Ch	anges

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

Parameters	Description
Name	Type the profile name.
APN	Type the APN string.
User name	User name 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.
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.

3) Click **Save** to add the new APN.

Note: The default APN cannot be edited or deleted.

#### SIM

1. From the Web UI, click **Settings>Mobile Network>SIM**. The SIM PIN lock is disabled by default. You can enable it by entering SIM PIN.

Router	>	SIM		
Mobile Network	$\sim$	The SIM card inside your device can be locked using a PIN. If the SIM card is locked you must enter		
Mobile Settings		the PIN below before you	are able to connect to the internet.	
APN		SIM Status	No SIM	
SIM		Desired Action	T	
Advanced				
Device	>	Enter Current PIN		
		0 attempts remain	n until your sim is PUK locked.	
		Entering an incorrect PIN too many times will PUK lock your SIM and you will unable to use this device. You will need to contact your service provider to unlock the SIM.		
			Save Changes	

Enter the SIM PIN and press "Save Changes". The SIM Status will be changed to Enabled. Once the SIM PIN Lock is enabled, you need to enter the SIM PIN to connect to the mobile broadband network each time you power on your C801.

Note: 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. Please contact your Service Provider.

#### Advanced

- Caution Advanced Mobile Network Settings should only be used as directed by Customer Service personnel. Certain advanced options will reset your device's connections and programming and will require reactivation.
- 1. From the Web UI, click **Settings>Mobile Network>Advanced** to set the mobile network advanced settings.



- Factory Reset: Click Factory Reset to reset the C801 to factory default value.
- Clear Programming: Click Renew Device to clear all account information.
- SIM Lock Service: Click Unlock UICC to allow the use of SIM from various service providers.

### Device

The Device settings menu lets you set display brightness, manage account password, update software, back up, restore and check system logs

#### Preferences

1. From the Web UI, click **Settings>Device>Preferences**. You can set the display timeout on this page.

Router	>	Preferences		
Mobile Network	>	LED		
Device	$\sim$	LED Enable	ON OFF	
Preferences		LED LINUIC		
Web Interface				Save Changes
Software Update				
Backup and Restore				
System Logs				

- LED Enable: If ON is selected, the LED indicator next to Your C801 display will blink when the device is on. This LED is a power indicator that shows the device is on when the device display is off.
- 2. Click Save Changes to save your settings.

#### Web Interface

1. From the Web UI, click **Settings>Device>Web Interface**. You can manage your Web UI admin password on this page.

Router	>	Web Interface
Mobile Network	>	Change Password
Device	$\sim$	You can change the password for this Web Interface. You will be locked out if you enter an incorrect
Preferences		password too many times.
Web Interface		Enter Current Password
Software Update		Enter New Password
Backup and Restore		
System Logs		Confirm New Password
		Save Changes

- Change Password: Allows changing password of Web UI Log in.
- 2. Click Save Changes to save your settings.

#### Software Update

1. From the Web UI, click **Settings>Device>Software Update**. You can update the software on this page.

Router	>	Software Update		
Mobile Network	$\geq$	Auto Update	ON OFF	
Device	$\sim$			Apply
Web Interface		Firmware		
Software Update		Current Software Version	C801.SP.31.189	
Backup and Restore System Logs		Upload Software		
		파일 선택 선택된 파일 없음		
				Upload Software
		Device Updates		
		Select a service and press 'Upo	date' button	
		Update Data Profile		
		<ul> <li>Update PRL</li> <li>Update Firmware</li> </ul>		
				Update
		Update History		
		Date	Version	
			NO UPDATE HISTORY	

Read the onscreen options and click the update you would like to initiate.

- Auto Update: If ON is selected, yourC801 will check the latest software periodically and update if new software is available.
- Update Software: If you have a new software file provided by your service provider, you can select the file and update your C801manually by pressing Update Software button.
- Device Updates: If you would like to check for new data profile, PRL, or Firmware, select desired option and press the Update button. Your C801 will check for the latest version. If available, the device will proceed to update.
- Update History: Displays the update history list.

#### **Backup and Restore**

1. From the Web UI, click Settings>Device>Backup and Restore to back up your device settings to your computer, restore settings from backup file, or restore your device to its factory default settings.

Router	>	Backup and Restore	
Mobile Network	>	Back up your device settings and preferences to your computer. Ple	ease note the backup will only
Device	$\sim$	with this particular device.	
Preferences		Download Backup	
Web Interface		Download a copy of your device settings so you can restore it	Back Up Now
Software Update		later.	Back op Hon
Backup and Restore		Restore from Backup	
System Logs		Upload settings from a previously saved backup file.	
			Restore Now
		Restore Device to Factory Defaults	
		Restore all user settings to the default settings.	Restore Factory Defaults

#### Backup Now

To back up your device settings to your computer, follow the steps below:

#### 1) Click Back Up Now.

- 2) Click **Save** on the pop-up window.
- 3) Choose a location on your computer to save the backup file.
- 4) Click Save.

#### Restore Now

To restore from backup file, follow the steps below:

1) Click **Select File** to select the backup file in your computer.

#### 2) Click Restore now.

#### Restore to Factory Defaults

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

#### 1) Click Restore factory defaults.

2) Click **Yes** to confirm the command.

## System Logs

1. From the Web UI, click **Settings>Device>System logs**, and then click **Download logs** to download the system logs displayed

Router	>	System Logs			
Mobile Network	>	Enable Logs	ON (	OFF	Save Changes
Device	$\sim$				
Preferences Web Interface Software Update Backup and Restore System Logs		[2013/06/20 14:00: [2013/06/20 14:01:	08) info: Mobile Hostpo 09) info: LTE F/W Inser 09) info: UTE F/W Onlin 10) info: UTE F/W Onlin 11) info: LTE F/W Onlin 11) info: Load configura 11) info: WAN prefer mn 11) info: Ping Address : 11) info: Ping Address : 11) info: Ping Address : 11) info: Ping Address : 11) info: Ping Atdress : 11) info: Ping Atdress : 11) info: Neng Atdress : 11) info: Neng Atdress : 12) info: Network State	nt started. ted state: -1, 0 ated he ation odc: eth-Ite : 8.8.8.8 10 int : 5 nk-down k-down ferred 81918 :: Searching Time Out	

Note: System logs are used for engineering purposes by your service provider. Keep it OFF during regular usage of your device.

## About

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

1. From the Web UI main screen, Click the **About** tab to view the available information.

Home	Settings	<b>i</b> About		<b>?</b> Support
Account		Device		
My Number MSID MEID ICCID	000000000000	Model Manager Hardware Revision	Franklin C8 http://myrou P1	901 uter
IMSI IMEI	0000000000000	WWAN Info Activation Date	Νο	
Firmware Firmware Version Build Date Web App Version	0.3.1.7 Dec 15 2017 C801 SP.31 189	IP Address LTE APN NI Lifetime Transferred	80.00 KB	
Bootloader Version	0.54.76			Save to File
ebug Info	aformation about your device			
Debug	normalion about your device.			

## Support Tab

Obtain support information on this interface.

1. From the Web UI main screen, click the **Support** tab to view the available options.

Home	Settings	<b>i</b> About	<b>?</b> Support
User Guide		Manage Your Account	
Download		Your Account Log in to your account for your cu	rrent plan and billing information.
Franklin Web Address		Manufacturer	
Device Support Go to Support, find information on your device along with videos, tutorials, and community forums for your device.		franklinwireless.com Check out troubleshooting and oth manufacturer's website.	her help manuals at the

## Appendix

The following topics cover items such as troubleshooting, device specifications, applicable warranty and service information, customer service contacts, and applicable trademark and copyright notices.

### Troubleshooting

Check below for troubleshooting solutions for common device issues.

#### Issue: Internet connection fails.

- **Solution 1**: Make sure that you are within the service area.
- **Solution 2**: If signal reception is poor, move to where signal reception is good and then reconnect. **Solution 3**: The access point might be busy depending on the time of day. Wait a little and then reconnect.
- Solution 4: Activate the Web UI and make sure that network settings are correct

#### Issue: Transmission fails quickly.

- Solution 1: Make sure that the broadband device is properly connected to the PC or other device.
- **Solution 2**: Signal reception might be poor. Check transmission where signal reception is good.
- Solution 3: Restart the broadband device.
- **Solution 4**: Check the broadband device battery level. If battery level is low, charge with AC charger. See Charge the Battery for how to charge.

#### Issue: Transmissions are slow.

**Solution 1:** Signal reception might be poor. Check transmission where signal reception is good.

Solution 2: Connection might be poor. Try again after a while.

#### Issue: Forgot PIN / Unknown PIN Unblocking Key (PUK) / SIM card is locked.

Solution: Contact Service Provider.

#### Issue: SIM card is not recognized.

**Solution 1**: Check whether the SIM card is properly installed. For details, see Insert or Remove a SIM Card.

**Solution 2**: Check the SIM card for damage.

Solution 3: Check the SIM card IC chip for scratches/corrosion.

**Solution 4**: Dirty SIM card (particularly IC chip) may prevent recognition. Clean gently with a soft cloth.

Solution 5: Contact Customer Service.

#### Issue: How do I return the broadband device to the default settings (reset)?

**Solution 1**: Use the reset button located on the back of the device after battery cover removal. (Device must be On when pressing reset button.)

Solution 2: Use the Web UI to reset the device. For details, see Web UI Window.

#### Issue: An old phone number appears on the Web UI.

**Solution**: The Web UI may display an old phone number depending on subscription terms or cancellation method.

#### Issue: The broadband device operation is unstable.

**Solution 1**: Avoid extremely high/low temperatures, high humidity, direct sunlight, dusty areas, etc. Read "Safety Precautions" for use in a proper environment.

**Solution 2**: Avoid invalid software. Operation is unguaranteed for Internet connection, etc., using other-party software.

#### Issue: The connection suddenly failed.

**Solution 1**: The connection method may have been changed. Check connection mode on the broadband device display.

Solution 2: Restart the broadband device.

#### **Specifications**

The following tables list the specifications for the broadband device, the AC charger, and the materials.

#### **Broadband Device Specifications**

Item	Description
Model name	C801 4G Router
Dimensions	104mm (L) x 104mm (W) x 49mm (H)
Weight	178g
Interface	Web UI
Power consumption	Normal state: 1.75 Watts
	Max state : 3.5 Watts
Operating system	Linux OS

Item	Description
Frequency	LTE B25
	DL: 1930 ~ 1995 MHz UL:1850 ~ 1915 MHz
	LTE B26
	DL: 859 ~ 894 MHz UL: 814 ~ 849 MHz
	LTE B41
	DL: 2496 ~ 2690 MHz UL: 2496 ~ 2690 MHz
Compatible networks	LTE category 4
Communication speed	LTE category 4
	DL : 150Mbps
	UP : 50Mbps

## AC Charger Specifications

Item	Description
Rated input voltage	100-240Vac
Operating range	90-264Vac
Rated input frequency	50/60Hz +/- 3Hz
Nominal dc output voltage	+5.0V (±5%)
Rating load current	2.0A

## Materials Specifications

Parts	Materials/Finishing
A cover	PC(White), Silk print
B cover	PC(Black), Silk print
A cover DECO	PC(Black)
Rubber feet	Silicon(Black)

## **Warranty and Service**

The following topics outline your device's warranty and service information.

## Warranty

Your device purchase includes Warranty.

- Confirm shop name and purchase date.
- Read contents of Warranty and keep it in a safe place.
- Check warranty period in the Warranty.

#### **Services**

Before submitting your device for repairs, contact Service Provider's Customer Service or General Information; be prepared to describe the problem in detail.

- During the warranty period, repairs will be made under the terms and conditions described in the Warranty.
- After the warranty period, repairs will be upon request; if said repairs can be made, you will be charged for them.

## **Customer Service**

For broadband device or service information, call general information. For repairs, call your Service Provider's customer assistance.

## **Trademarks and Copyright Information**

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## **Safety and Notices**

The following topics address important safety precautions, general notes, and required RF exposure information for your broadband device.

## **Safety Precautions**

The following topics outline important safety precautions that must be observed when using your device.

## **Important Notice**

Due to the nature of wireless communications, transmission and reception of data can never be guaranteed. Data may be delayed, corrupted (i.e., have errors) or be totally lost. Although significant delays or losses of data are rare when wireless devices are used in a normal manner with a well-constructed network, your device should not be used in situations where failure to transmit or receive data could result in damage of any kind to the user or any other party, including but not limited to personal injury, death, or loss of property. Franklin Wireless accepts no responsibility for damages of any kind resulting from delays or errors in data transmitted or received using your device, or for failure of your device to transmit or receive such data.

## Safety and Hazards

Do not operate your device under the following conditions.

- In areas where blasting is in progress
- Where explosive atmospheres may be present
- Near medical equipment
- Near life support equipment, or any equipment that may be susceptible to any form of radio interference.

In such areas, your device MUST BE POWERED OFF. Your device can transmit signals that could interfere with this equipment.

Do not operate your device in any aircraft, whether the aircraft is on the ground or in flight. In aircraft, your device MUST BE POWERED OFF. When operating, your device can transmit signals that could interfere with various onboard systems.

Note: Some airlines may permit the use of cellular phones while the aircraft is on the ground. Your device may be used at this time if allowed by airlines.

The driver or operator of any vehicle should not operate the device while in control of a vehicle. Doing so will detract from the driver or operator's control and operation of that vehicle. In some jurisdictions, operating such communications devices while in control of a vehicle is an offense.

## **FCC Compliance**

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.

Note: Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate this 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:

- 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

## **RF Exposure Statement**

The antenna(s) must be installed such that a minimum separation distance of at least 20 cm is maintained between the radiator (antenna) and all persons at all times. This device must not be co-located or operating in conjunction with any other antenna or transmitter.