



uCloudlink R102FG LTE Wireless Router Installation Guide

[Home](#) » [uCloudlink](#) » uCloudlink R102FG LTE Wireless Router Installation Guide 



Contents

- [1 Conventions](#)
- [2 Interfaces](#)
- [3 Specifications](#)
- [4 Working Environment](#)
- [5 LED Lights Indicators](#)
- [6 Equipment List](#)
- [7 Device Configuration instructions](#)
- [8 Set up 3G/4G Internet](#)
- [9 Working Mode Setting](#)
- [10 Gateway Mode](#)
- [11 3G/4G Mode](#)
- [12 Wireless Relay Mode](#)
 - [12.1 Access Point Mode](#)
 - [12.2 Wireless 2.4GHz Setting](#)
- [13 Device Management](#)
 - [13.1 Administrator rights](#)
 - [13.2 Firmware upgrade](#)
- [14 Documents / Resources](#)
- [15 Related Posts](#)

Conventions

Thank you for purchasing R102FG.

Application to 4G wireless router, this installation guide provides a Web-based configuration guide method and

procedure. In this guide, Windows 10 is used as an example.

Interfaces



interface	Interface Description	Functional description
Power interface	Battery version	DC power input interface power supply
	DCIN battery-less version	DC power input interface, no battery version uses 12V/2A power adapter
Network port	WAN	1 RJ45 network port, used in gateway mode
	LAN1/LAN2	2 RJ45 network ports, used to connect terminal CPE such as computer
Built-in antenna interface	2*2.4G Wi-Fi antennas 2*5.8G Wi-Fi antennas 2*4G antennas	Responsible for sending and receiving electromagnetic radiation from the air
button	Power button	Self-locking switch, press to turn on, pop up to shut down
	RST restart button	Long press to restart the system or restart CPE
SIM card slot	Standard SIM card slot	Connect 4G wireless Internet

Specifications

Adapter Voltage input AC100V~240V output DC12V/2A
Supply voltage DC 12V

Working Environment

Working temperature -10 ~+°C 65 °C
Storage humidity 5%~95%RH non-condensing
Therefore, in order to ensure the normal operation of the device, the recommended working the environment of the device is as follows:
Keep away from heat and keep ventilated
Place the device in an ash-free and dry environment

In thunderstorm weather, please remove the power supply and all connections of the equipment to avoid damage by lightning.
According to the installation method(handling ears or rail clips).place the device on a flat surface

LED Lights Indicators

Interfaces	Interfaces description			Functional description
Power	Power Indicator	Battery version	Power supply	Steady blue light indicates that the battery is fully charged, and a flashing blue light indicates charging
			No battery power external power supply	Blue light indicates that the battery is fully charged, and blue light indicates that the battery is in a low battery state
		Battery-less version		Three lights always on indicate that the CPE power supply is normal
SYS	System indicator			Steady on means the system network connection is normal
4G	Signal indication			Steady light means the 4G signal is normal, and off means the 4G is offline or plugged into the Internet
Wi-Fi	Long bright			The wireless function is enabled, and Wi-Fi is in normal working condition
	Flashing			Data is being sent and received via WLAN
	Extinguish			Wi-Fi is not available without wireless function

Equipment List

R102FG ×1	2.4 4G Wi-Fi antenna×2	5.8G Wi-Fi antenna ×2
4G antenna×2	DC 12V Power adapter×1	Quick start guide×1


Device Configuration instructions

If you need to manage and configure this device, you can connect to the 4G LTE CPE wireless or by wire. The default 4G LTE CPE address of this device is 192.168.169.1 and the subnet mask is 255.255.255.0. These network parameters can be modified according to the actual situation, which will be explained with default values.

Log in to the background management interface

After the R102FG device is powered on, users can use their mobile phones or tablets to connect to the device's wireless Wi-Fi. The Wi-Fi name is "LTE-2.4GHz-xxxxxx /LTE- 5GHz-xxxxxx", and the Wi-Fi factory password is s7wks68q. Users can also directly connect the LAN port of the R102FG CPE device to the Computer network port using a network cable.

1. Open the IE of the Computer or smart-phone/tablet, type the address bar: 192.168.169.1 in the address bar, and press Enter.

 <http://192.168.169.1>

2. In the pop-up login window, enter the password: admin; then click "Login"(or enter password and press Enter directly to **enter**).

Authorization Required

Please enter your username and password.

Username

Password

LOGIN **RESET**

NOTE The initial administrator passwords are all “admin”, users can change in the administrator password after entering the configuration on the system.

3. After entering the correct password, you can enter the Devic's WEB configuration interface and “Overview” view.

Overview

System

Label	Value
Model	R102FG
Firmware Version	1.0.0
SN	123456789
Local Time	2023-10-27 10:10:10
Uptime	10 min

Network

Label	Value
LTE Status	Not Connected
WiFi Status	Not Connected

Set up 3G/4G Internet

This router supports the function of automatically configuring 3G/4G dialing parameters. It can be automatically configured for more than 95% of global operators' 3G/4G network dialing parameters without manual configuration by users. If you have special APN customization requirements, please follow the steps below :

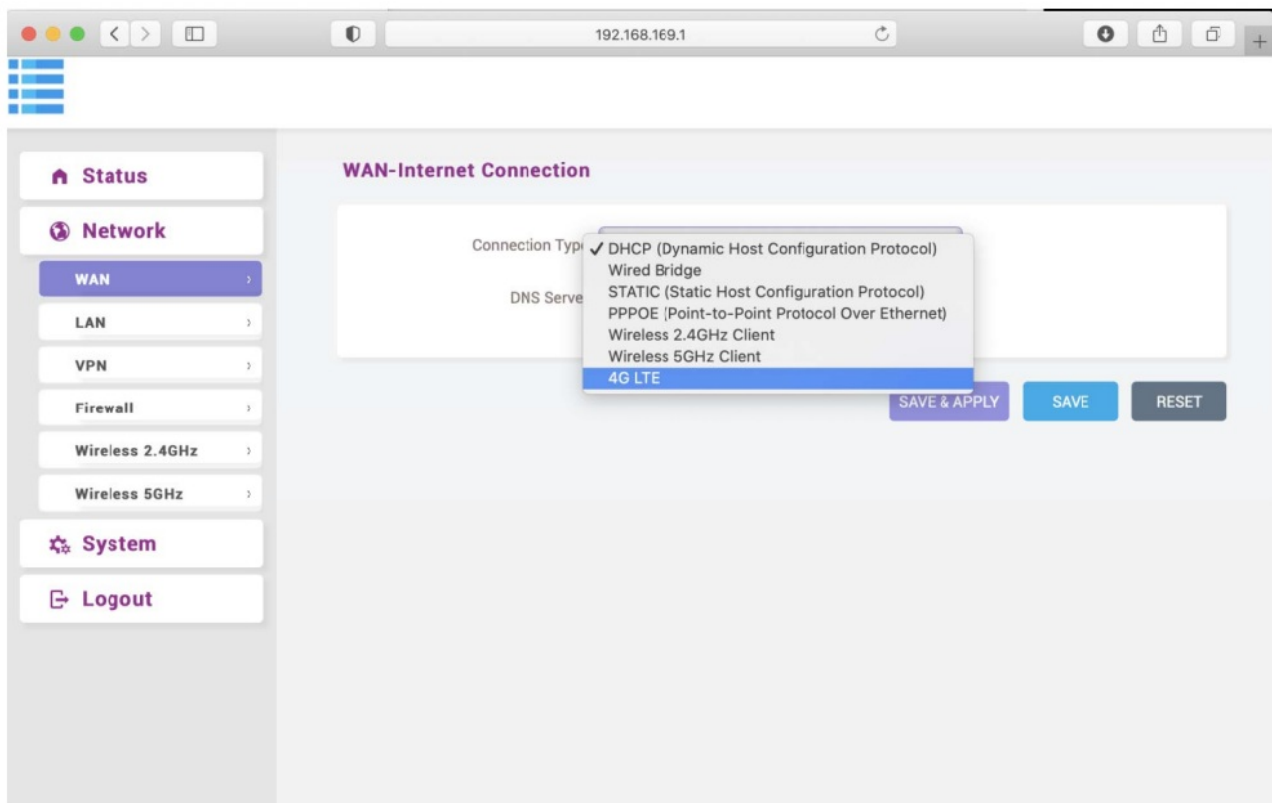
Step 1: Confirm that the SIM card is valid and can be used normally;

Step 2: Confirm whether the 3G/4G dial-up settings of this router meet the requirements of local operators. The specific operation process is as follows: Please click "APN Customization" on the homepage to expand and enter 3G/4G dialing settings. Then enter the user name, password, dial number, and APN parameters provided by the 3G/4G

G ISP, and click OK.

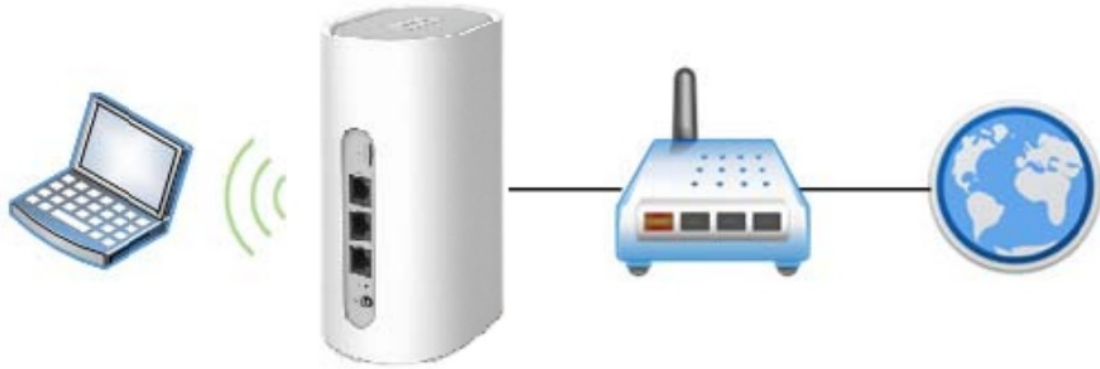
Working Mode Setting

The R102FG supports five Internet access modes: DHCP (Dynamic Host Configuration Protocol) Internet, Wired Bridge, STATIC (Static Host Configuration Protocol), PPPOE (point-to-point Protocol Over Ethernet), Wireless 2.4GHz master, Wireless 5G master, 4G LTE. The default external network connection mode is "wireless 2.4GHz access". Users can click the "Network 3 WAN" in the navigation bar to enter the extra-net connection settings and then click the "Connection Type" drop-down button to select the Internet mode that they want.



Gateway Mode

Like other home routers. Its WAN port is connected to broadband, and the other three are LAN ports. The connection methods include DHCP dynamic Internet access (automatic acquisition), PPPOE dialing, and static IP Internet access in three ways. Will act as a wireless (or wired) access point, bridge to your local network, and connect to the Internet through a router.



(Network map settings link diagram)

3G/4G Mode

The default mode of the wireless router is “4G LTE Internet access”. Insert the SIM card and use the 4G module to access the Internet. All LAN ports are available.

Wireless Relay Mode After opening the LTE CPE, use the wireless network card to relay other Wi-Fi signals to access the Internet.

Wireless Relay Mode

After opening the LTE CPE, use the wireless network card to relay other Wi-Fi signals to access the Internet.



Access Point Mode

When turned on, the CPE is a wireless switch(no IP address is assigned)that can be wired in series (to any network port)to achieve a two-tier connection between wired and wireless networks under other routers.

Wireless 2.4GHz Setting

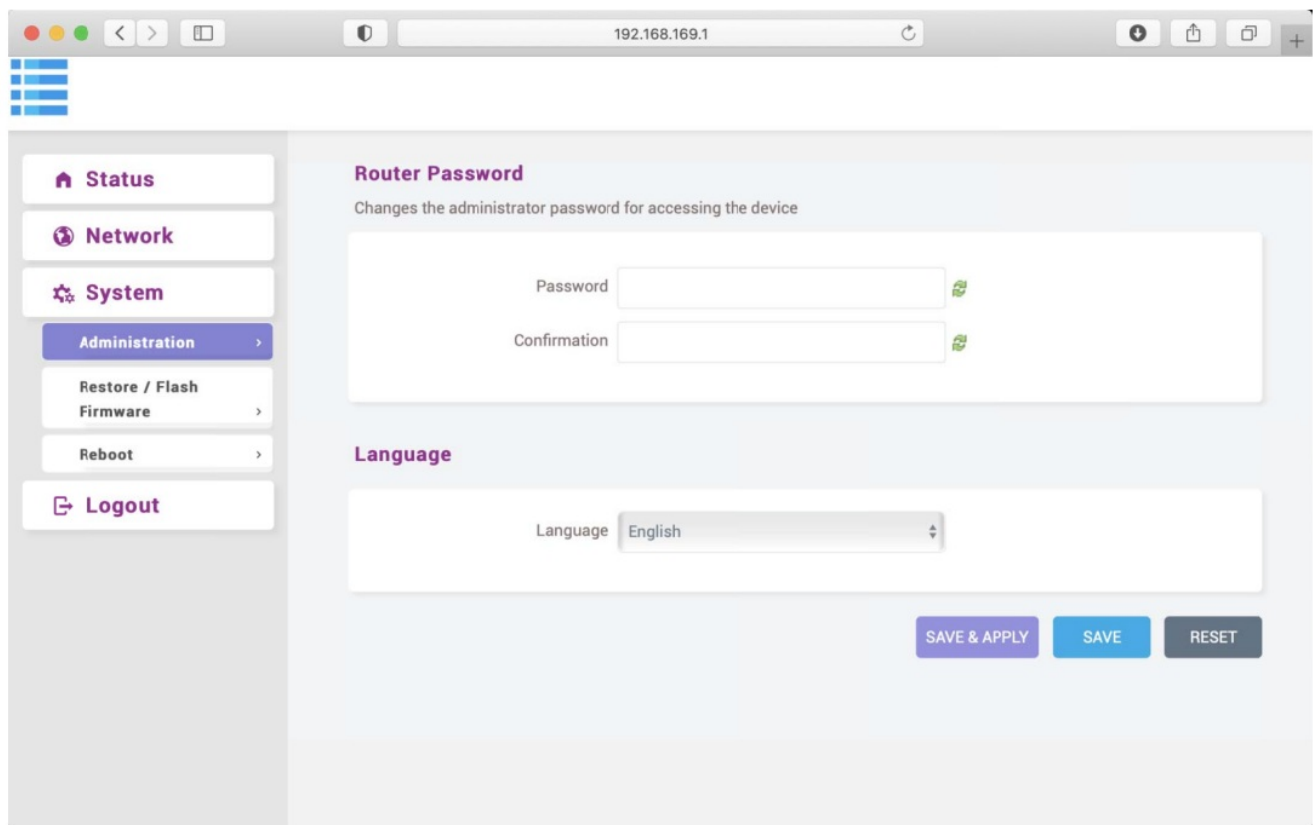
In the default mode of R102FG Pro start-up, the user can click on the “Bar 3 Wireless 2.4GHz” in the navigation bar to enter the wireless network settings, then click the “SSID” blank bar to change the setting WIFI name, click the “Password” blank bar can modify the WIFI password.

Device Management

Administrator rights

Click “System -> Management Rights”, the password of the administrator login interface can be modified under

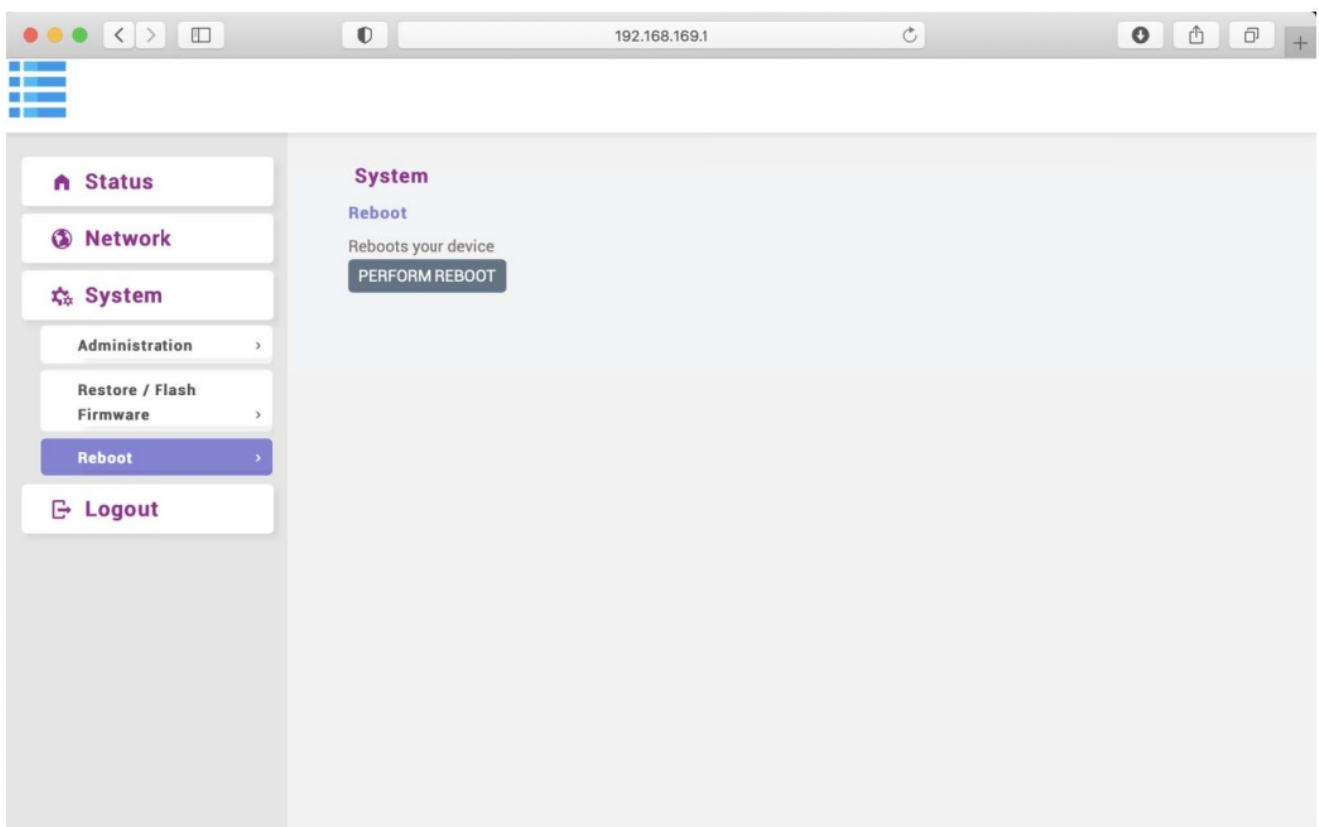
the host language bar, and a different language can be selected by clicking the drop-down button under the language bar. The device defaults to “Simplified Chinese”.



The screenshot shows a web browser window with the address bar displaying 192.168.169.1. The page has a sidebar on the left with a menu containing: Status, Network, System, Administration (highlighted), Restore / Flash Firmware, Reboot, and Logout. The main content area is titled "Router Password" and includes a sub-header "Changes the administrator password for accessing the device". It features two input fields: "Password" and "Confirmation", each with a green eye icon for toggling visibility. Below this is a "Language" section with a dropdown menu currently set to "English". At the bottom right, there are three buttons: "SAVE & APPLY" (purple), "SAVE" (blue), and "RESET" (grey).

Reboot

Click the system bar r “System -> Restart rt” to resta art the sys tem or restart the de device.



The screenshot shows the same web browser window, but the "Administration" menu item in the sidebar is expanded, and the "Reboot" option is selected. The main content area is titled "System" and "Reboot", with a sub-header "Reboots your device". A single button labeled "PERFORM REBOOT" is visible.

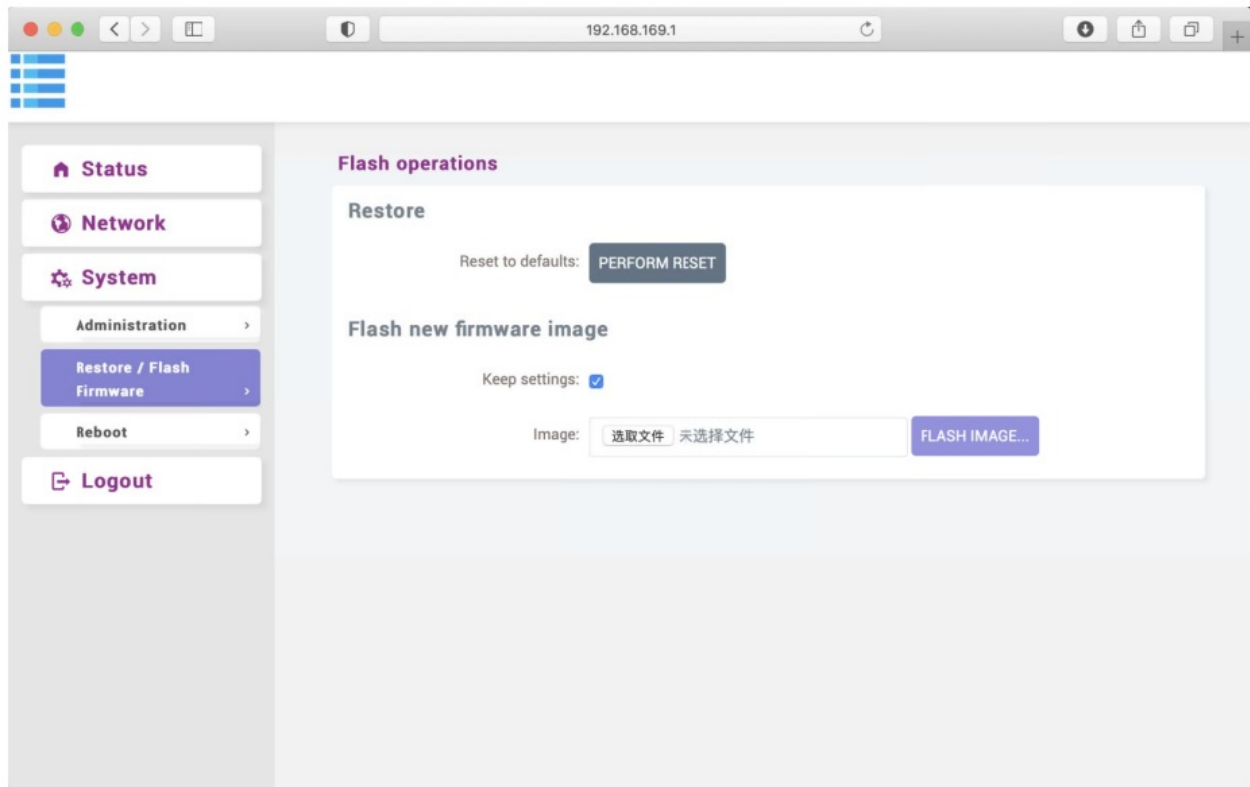
Firmware upgrade

Firmware upgrade

Users can click the “System—>Restore/Flash Firmware” in the navigation bar to enter the flash new firmware image settings, with software upgrades, you can load the latest version of the software to the router for more functionality and more stable performance Steps as below:

- (a) Save the upgrade file to the local computer.
- (b) Click “browse button”, then select the upgrade file which you save, from the local to upgrade, and select software that needs upgrading.
- (c) Click “FLASH IMAGE...”.

You can also flash the new firmware directly on the WEB configuration interface (IP address: 192.168.169.1) in the following way, click “System -> Recovery/Upgrade” to enter the system flash operation interface, and click the “Execute Reset” button to restore the system.



FCC Compliance Notice

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

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- 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 Information

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter. This equipment should be installed and operated with a minimum distance of 25cm between the radiator& your body.

ISED RSS warning

This device complies with Innovation, Science and Economic Development Canada Compliance licence-exempt RSS standard (s). Operation is subject to the following two conditions: (1) this device may not cause interference, and (2) this device must accept any interference, including interference that may cause undesired operation of the device.

ISED Radiation Exposure Statement:

This equipment complies with ISED RF radiation exposure limits set forth for an uncontrolled environment. This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.

Documents / Resources

	<p>uCloudlink R102FG LTE Wireless Router [pdf] Installation Guide R102FG, 2AC88-R102FG, 2AC88R102FG, R102FG LTE Wireless Router, R102FG, LTE Wirel ess Router</p>
---	---