



UniFi U-LTE Gateway for WAN User Guide

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Package Contents

- U-LTE



- Stand



- Mounting Bracket



- Double-Sided Adhesive



- Self-Tapping Screws (Qty. 2)



- Screw Anchors (Qty. 2)



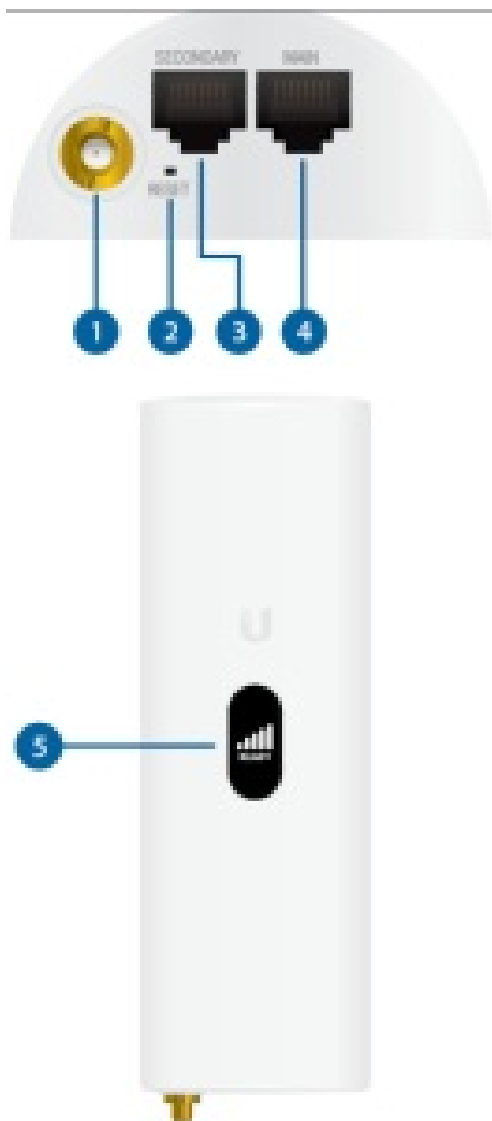
- RP-SMA Cap



System Requirements

- Linux, Mac OS X, or Microsoft Windows 7/8/10
- Java Runtime Environment 1.8 or above recommended
- Web Browser: Google Chrome (Other browsers may have limited functionality)
- UniFi Controller software v5.12.x (or newer), available at:
ui.com/download/unifi

Hardware Overview



1. **RP-SMA Antenna Connector**

You can connect an optional external LTE antenna (not included). If you are not using an external antenna, then you can cover the connector with the RPSMA Cap.

2. **Reset Button**

The Reset Button serves two functions:

- Restart Press and release the Reset button quickly.
- Restore to Factory Default Settings Press and hold the Reset button for more than five seconds, until the display indicates “Factory Reset”.

3. **Secondary**

This Gigabit Ethernet port is used for bridging and can provide passive PoE to a device.

4. **Main**

802.3at PoE+ switch, such as a UniFi PoE Switch.

5. **LCD Screen**

Displays status information, including the LTE signal strength.

Installation Requirements


- Phillips screwdriver
- Wall-mounting (optional): drill with 6 mm drill bit


- For WAN failover:
 - UniFi Dream Machine, model UDM
 - UniFi Security Gateway, model USG, USG-PRO-4, or USG-XG-8
- UniFi cloud account

 **Note:** The U-LTE can only be adopted via remote access at: unifi.ui.com

- Activation of Ubiquiti LTE data plan
- For indoor applications, use Category 5 (or above) UTP cabling approved for indoor use.
- For outdoor applications, shielded Category 5 (or above) cabling should be used for all wired Ethernet connections and should be grounded through the AC ground of the power supply.

We recommend that you protect your networks from harmful outdoor environments and destructive ESD events with industrial-grade, shielded Ethernet cable from Ubiquiti. For more details, visit: ui.com/toughcable

 **WARNING:** To reduce the risk of fire or electric shock, do not expose this product to rain or moisture.

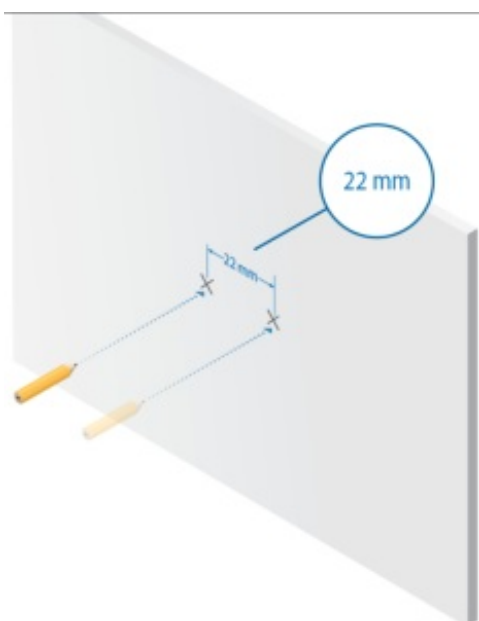
 **Note:** Although the cabling can be located outdoors, the U-LTE itself should be housed inside a protective enclosure.

Hardware Installation

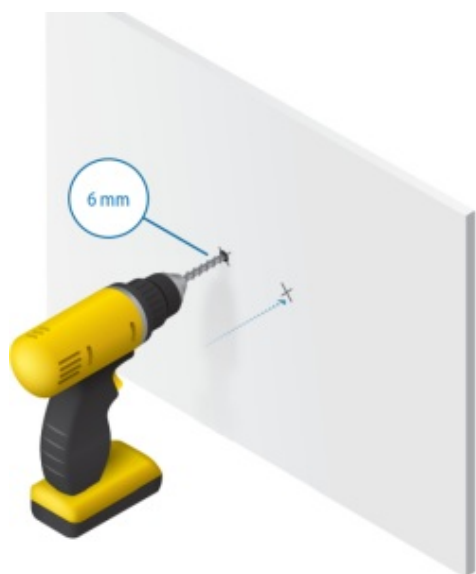
The U-LTE can be mounted in three ways:

- Screw Mount
- “Adhesive Mount”
- “Desktop Mount”

Screw Mount



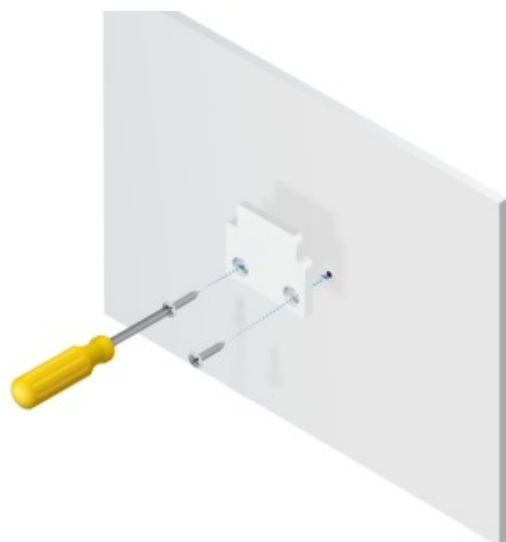
1.



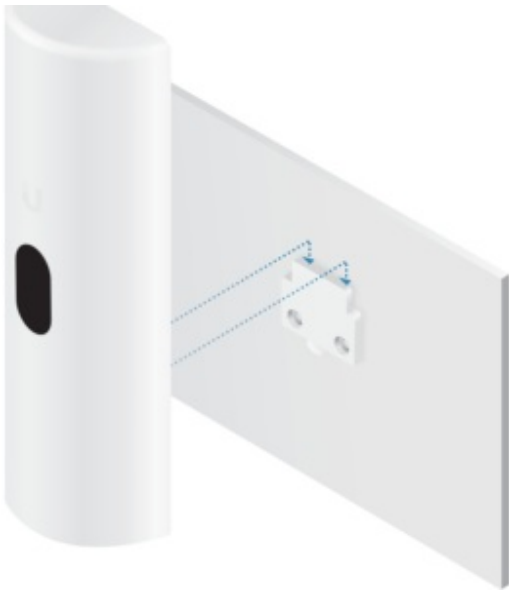
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3.



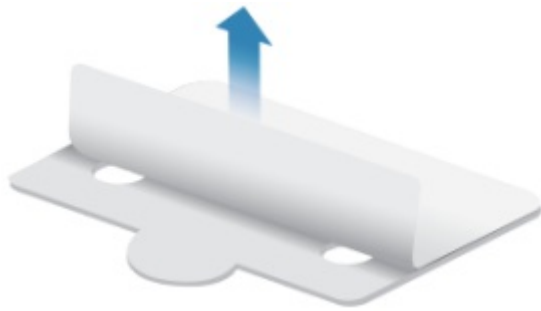
4.



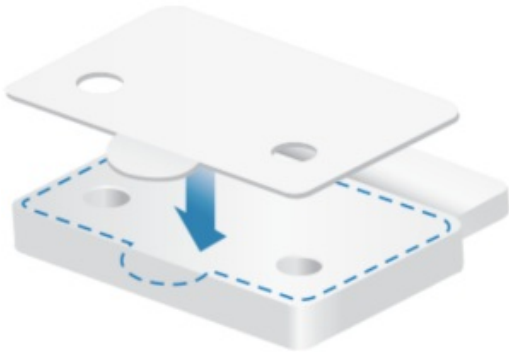
5.

Proceed to “Connecting Ethernet”.

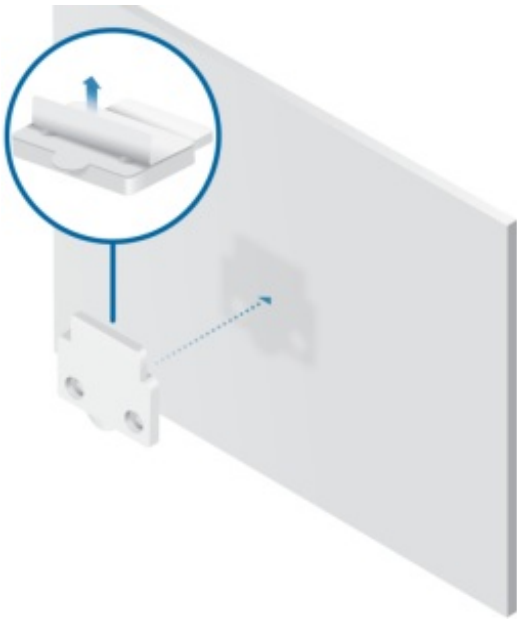
Adhesive Mount



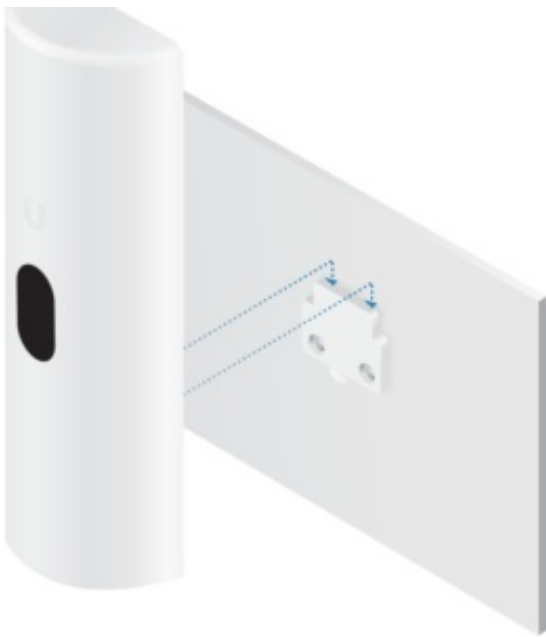
1.



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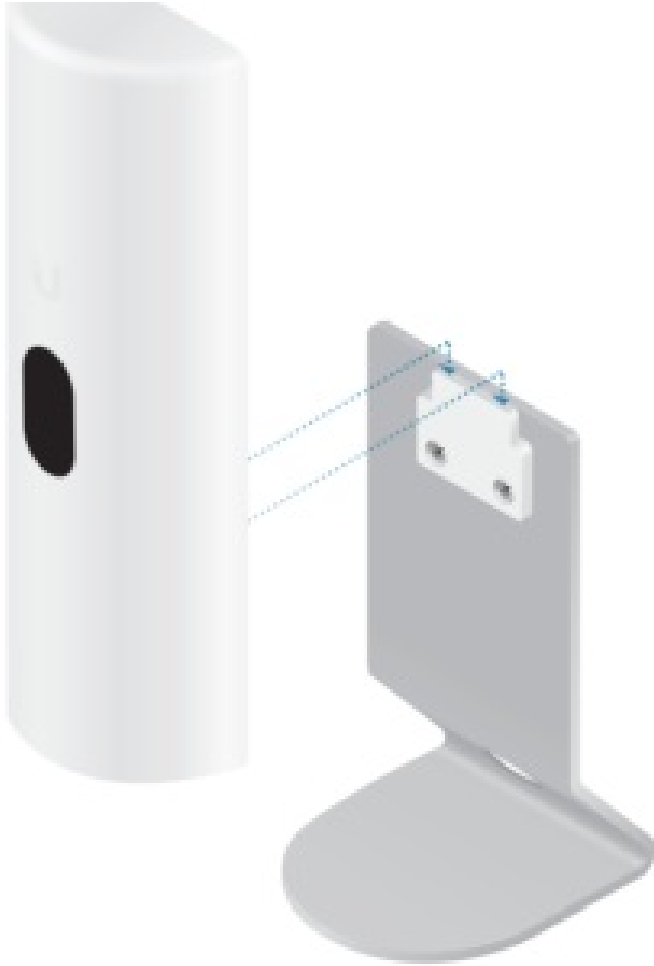
3.



4.

Proceed to “Connecting Ethernet”.

Desktop Mount



Connecting Ethernet




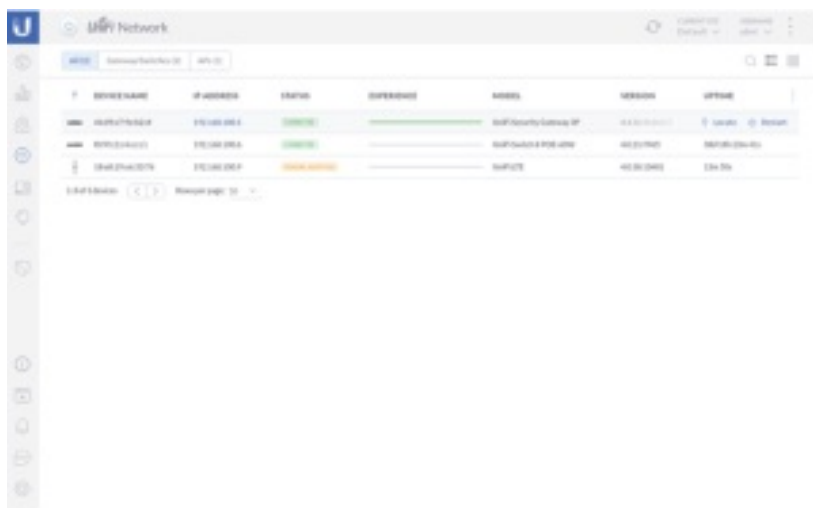
Setup Overview

- Adopt the U-LTE in the UniFi Controller software.
- Set up your LTE account. You can manage your LTE subscription at: account.ui.com/subscriptions

If the primary WAN 1 or 2 goes offline, then the configured networks fail over to the U-LTE.

Configuration

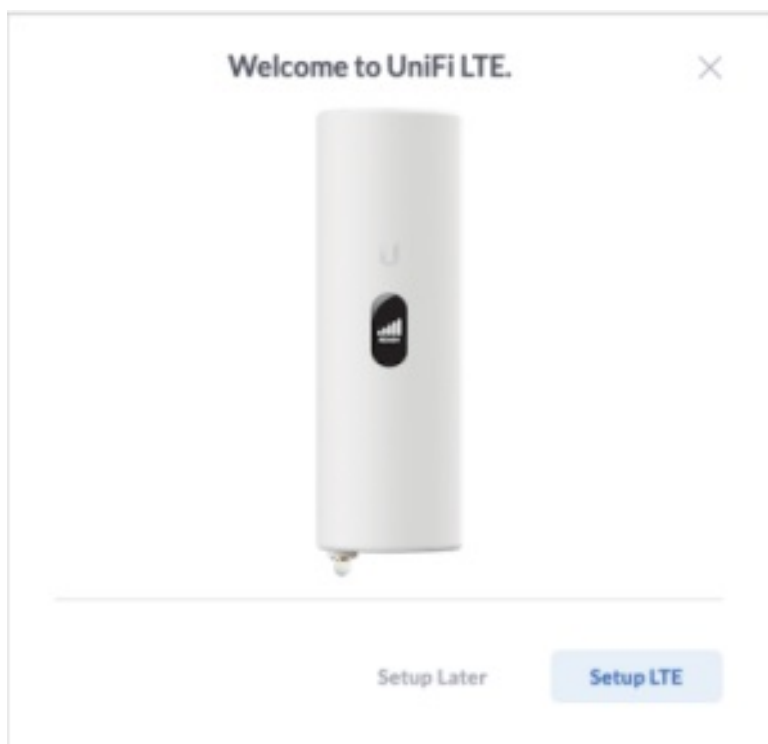
1. In the UniFi Controller, click the Devices  tab. The U-LTE should be automatically detected and begin the setup wizard; proceed to step 2. Otherwise, select the U-LTE and click Adopt.



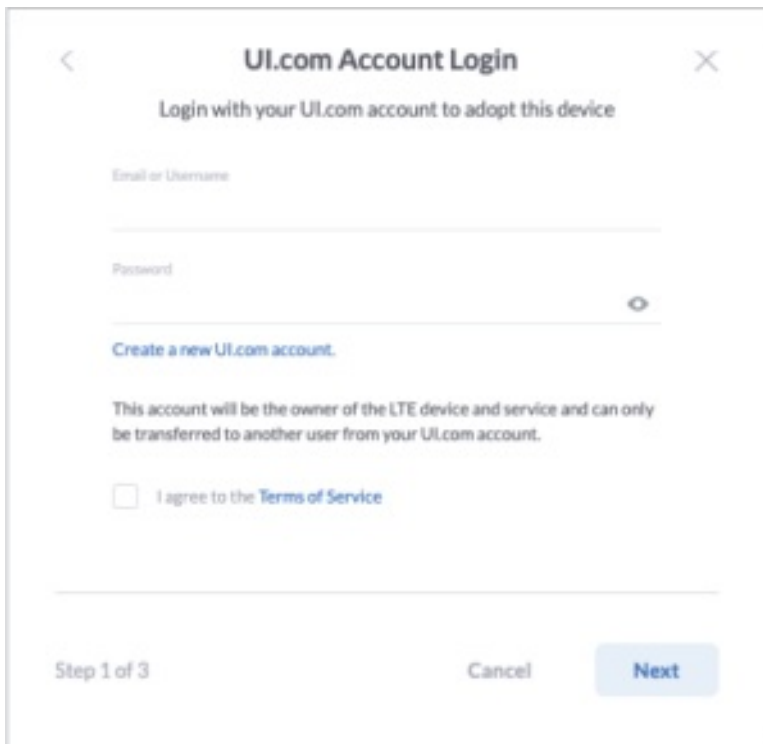
The image shows the UniFi Network Controller interface. At the top, there's a header with the UniFi logo and 'UniFi Network'. Below the header, there's a table with columns: DEVICE NAME, IP ADDRESS, STATUS, SUPERVISOR, MODEL, VERSION, and UPTIME. The table contains three rows of data. Below the table, there's a '0 of 3 devices' indicator and a 'Refresh page' button.

DEVICE NAME	IP ADDRESS	STATUS	SUPERVISOR	MODEL	VERSION	UPTIME
UniFi Security Gateway	192.168.1.1	Online	UniFi Security Gateway	UniFi Security Gateway	4.4.10.0 (2017-11-15)	1 day, 10:10:10
UniFi Switch	192.168.1.2	Online	UniFi Switch	UniFi Switch	4.4.10.0 (2017-11-15)	1 day, 10:10:10
UniFi PoE Switch	192.168.1.3	Online	UniFi PoE Switch	UniFi PoE Switch	4.4.10.0 (2017-11-15)	1 day, 10:10:10

2. Click Setup LTE.



3. For your ui.com account, enter your email address or username and password. Select I agree to the Terms of Service and click Next.



UI.com Account Login

Login with your UI.com account to adopt this device

Email or Username

Password

[Create a new UI.com account.](#)

This account will be the owner of the LTE device and service and can only be transferred to another user from your UI.com account.

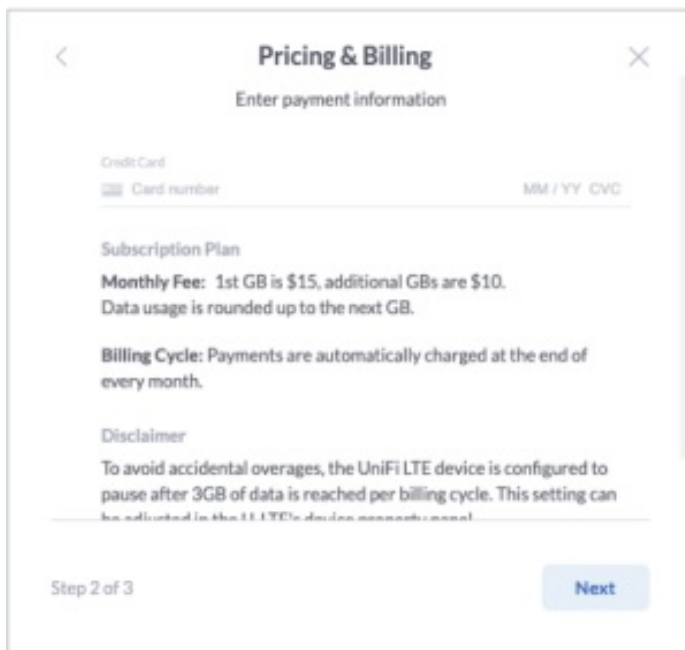
☐ I agree to the [Terms of Service](#)

Step 1 of 3

Cancel Next

4. For payment information, enter the following:

- Credit card number
- Expiration month and year in this format: MM/YY
- CVC (Card Verification Code) on the back of your card Click Next.



Pricing & Billing

Enter payment information

Credit Card

Card number MM / YY CVC

Subscription Plan

Monthly Fee: 1st GB is \$15, additional GBs are \$10.
Data usage is rounded up to the next GB.

Billing Cycle: Payments are automatically charged at the end of every month.

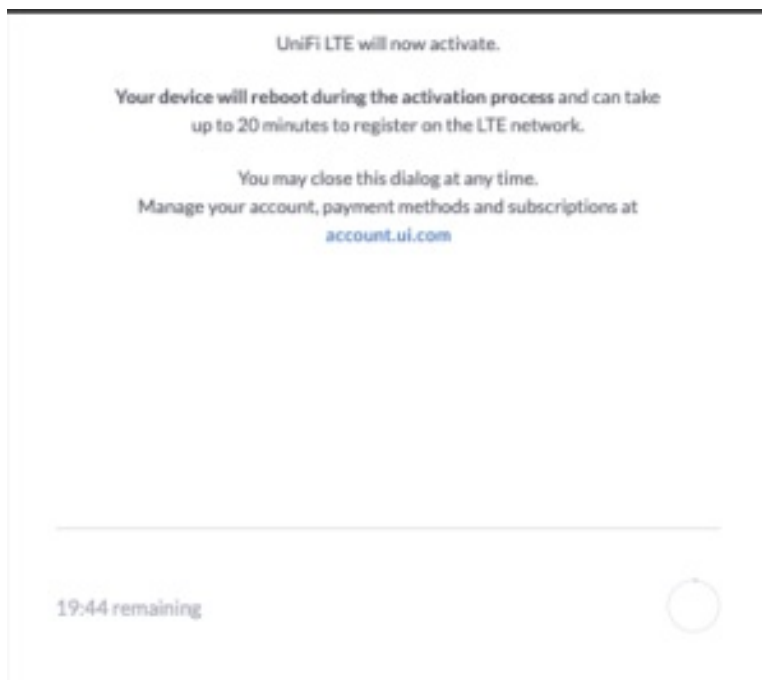
Disclaimer

To avoid accidental overages, the UniFi LTE device is configured to pause after 3GB of data is reached per billing cycle. This setting can be adjusted in the UniFi LTE device settings menu.

Step 2 of 3

Next

5. The U-LTE will reboot. It can take up to 20 minutes to activate on the cellular network. Click Done to close this screen.



Using the U-LTE

To monitor data usage, click the U-LTE on the Devices screen. Its Properties panel will appear.

The image shows the UniFi Network interface. On the left, the 'Devices' screen lists three devices: 'unifi-lte-001', 'unifi-lte-002', and 'unifi-lte-003'. The 'unifi-lte-001' device is highlighted. On the right, the 'Properties' panel for 'unifi-lte-001' is displayed. It shows the device's IP address as '192.168.1.1' and its status as 'Online'. The 'Data Usage' section shows '1.67 / 2 GB' used. A warning message states: 'You've exceeded 1 GB of available LTE data. Usage charges apply. When you've reached 2 GB, your LTE service will be interrupted. Increase your total monthly LTE data limit to avoid service interruptions. Increase Data Limit'. Below this, the 'Properties' section lists various details: 'Device Name: unifi-lte-001', 'Model: UN2401', 'Serial: 800000001', 'Firmware: 1.1', 'IP Address: 192.168.1.1', 'Status: Online', 'Data Usage: 1.67 / 2 GB', and 'Data Limit: 2 GB'.

Device Name	IP Address	Status	Expression	Model
unifi-lte-001	192.168.1.1	Online		unifi-lte-001
unifi-lte-002	192.168.1.2	Online		unifi-lte-002
unifi-lte-003	192.168.1.3	Online		unifi-lte-003

unifi-lte-001

192.168.1.1

Online

Data Usage: 1.67 / 2 GB

You've exceeded 1 GB of available LTE data. Usage charges apply. When you've reached 2 GB, your LTE service will be interrupted. Increase your total monthly LTE data limit to avoid service interruptions. Increase Data Limit

Properties

Device Name: unifi-lte-001

Model: UN2401

Serial: 800000001

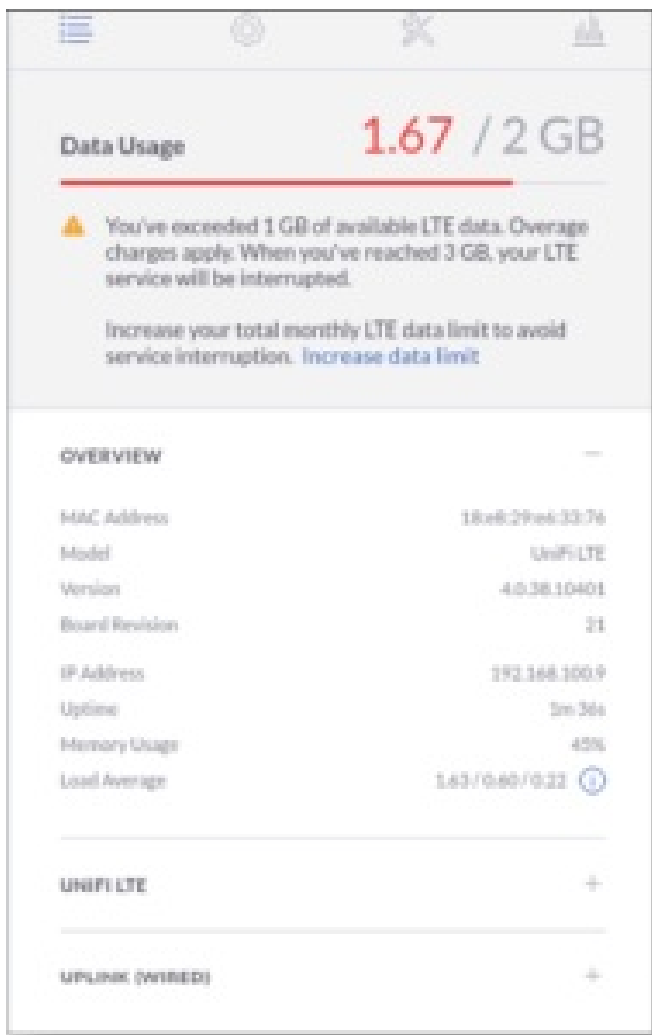
Firmware: 1.1


IP Address: 192.168.1.1

Status: Online

Data Usage: 1.67 / 2 GB

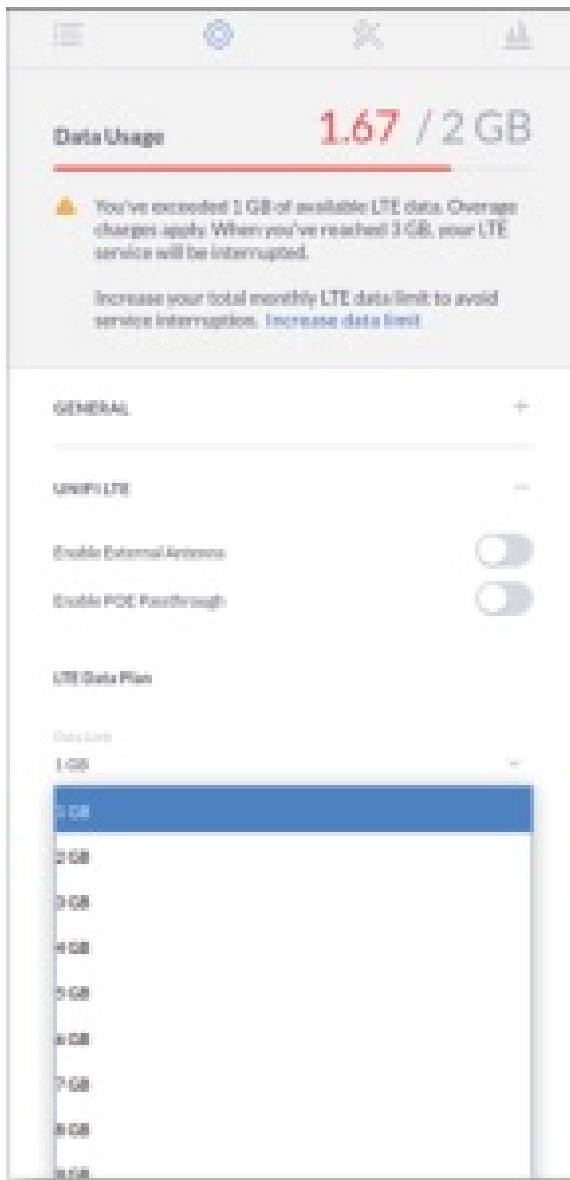
Data Limit: 2 GB




Click the Settings  icon to access the following:

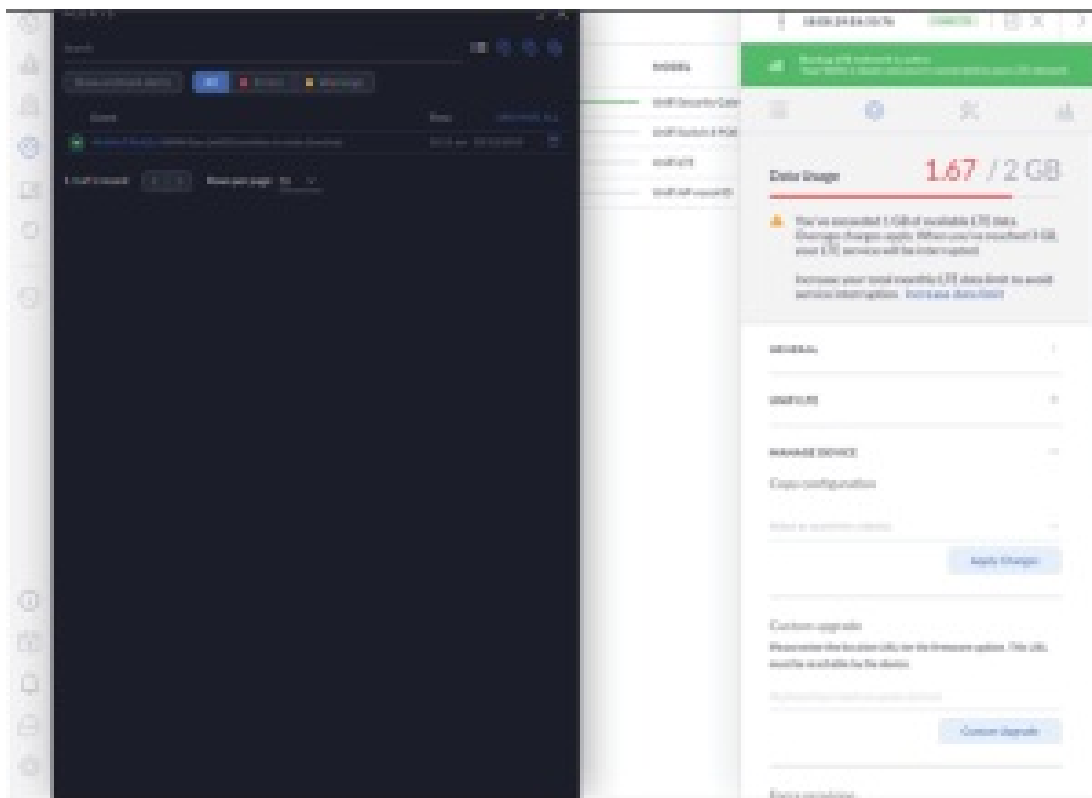
- Enable External Antenna If you attach an external antenna to the U-LTE, click this option.
- Enable PoE Passthrough If you have connected a secondary PoE device to the U-LTE, click this option.
- LTE Data Plan An alert is initiated when 1 GB of data is used (by default). To change the data limit, click the Data Limit drop-down and select a different amount of data.

Click Apply to save changes.



When LTE failover is active, an alert will appear in the Properties panel and the Controller's list of alerts.

 **Note:** LTE failover is active by default.



An alert will appear when LTE failover is activated or deactivated.

ALERTS

UNREAD ALERTS

Search

Show archived alerts

All

Errors

Warnings

Event	Time	ARCHIVE ALL
<div><div></div><div>44a9fe7-7eb2e1 WAN (ace-jeth0) transition to state (active)</div></div>	10:15 am 05/13/2019	<div></div>
<div><div></div><div>44a9fe7-7eb2e1 WAN (ace-jeth0) transition to state (inactive)</div></div>	10:11 am 05/13/2019	<div></div>

1-2 of 2 records

<

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Rows per page: 50


Specifications


U-LTE	
Dimensions	66 x 202.12 x 32.2 mm (2.60 x 7.96 x 1.27")
Weight Without Mounting With Mounting	200 g (7.06 oz) 316 g (11.15 oz)
Interfaces Networking Management	(2) 10/100/1000 RJ45 Ports WP7603 LTE Ethernet, Bluetooth

Max. Power Consumption with PoE Passthrough	8.5W 16W*
PoE Out	48V Passthrough (Pins 1, 2+; 3, 6-)
Power Method	802.3at (Pairs 1, 2+; 3, 6-; Pairs 4, 5+; 7, ☺)
Power Supply	UniFi PoE Switch
Supported Voltage Range	44 to 57VDC
LCM	1.54" Display
LTE Category	Cat 4
LTE Bands	B2/4/5/12
Antenna LTE 2.4 GHz	(1) 2x2 (1) 1x1
2.4 GHz Antenna Gain	1.5 dBi
BT Operating Frequency	2400 – 2483.5 MHz
Mounting	Wall-Mount
Operating Temperature	-10 to 50° C (14 to 122° F)
Operating Humidity	5 to 95% Noncondensing
Certifications	FCC, IC, PTCRB, AT&T

Safety Notices

1. Read, follow, and keep these instructions.
2. Heed all warnings.
3. Only use attachments/accessories specified by the manufacturer.

 **WARNING:** Do not use this product in location that can be submerged by water.

 **WARNING:** Avoid using this product during an electrical storm. There may be a remote risk of electric shock from lightning.

Electrical Safety Information

1. Compliance is required with respect to voltage, frequency, and current requirements indicated on the manufacturer's label. Connection to a different power source than those specified may result in improper operation, damage to the equipment or pose a fire hazard if the limitations are not followed.
 2. There are no operator serviceable parts inside this equipment. Service should be provided only by a qualified service technician.
- Do not substitute the power cord with one that is not the provided approved type. Never use an adapter plug to connect to a 2-wire outlet as this will defeat the continuity of the grounding wire.
 - The equipment requires the use of the ground wire as a part of the safety certification, modification or misuse can provide a shock hazard that can result in serious injury or death.
 - Contact a qualified electrician or the manufacturer if there are questions about the installation prior to connecting the equipment.
 - Protective earthing is provided by Listed AC adapter. Building installation shall provide appropriate short-circuit backup protection.
 - Protective bonding must be installed in accordance with local national wiring rules and regulations.

Limited Warranty

ui.com/support/warranty

The limited warranty requires the use of arbitration to resolve disputes on an individual basis, and, where applicable, specify arbitration instead of jury trials or class actions.

Compliance

FCC

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

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.

This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference

when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operations of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.

This radio transmitter has been approved by FCC.

ISED Canada

CAN ICES-3(A)/NMB-3(A)

This device complies with ISED Canada licence-exempt RSS standard(s). Operation is subject to the following two conditions:

1. This device may not cause interference, and This radio transmitter has been approved by ISED Canada.

IMPORTANT NOTE


Radiation Exposure Statement

- This equipment complies with radiation exposure limits set forth for an uncontrolled environment.
- This equipment should be installed and operated with minimum distance 20 cm between the radiator and your body.
- This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.

Online Resources



Documents / Resources

	UniFi U-LTE Gateway for WAN [pdf] User Guide U-LTE, Gateway for WAN
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