

LTE Indoor CPE

LCE4121M

Quick Start Guide

WELCOME

TO THE LTE CPE

This document will serve as a quick start guide for LTE indoor device. Carefully read the following safety symbols to help you use your CPE safely and correctly.

- Additional information
- Optional methods or shortcuts for an action
- Potential problems or conventions that need to be specified

Package Contents

Please check the package contents before installation:

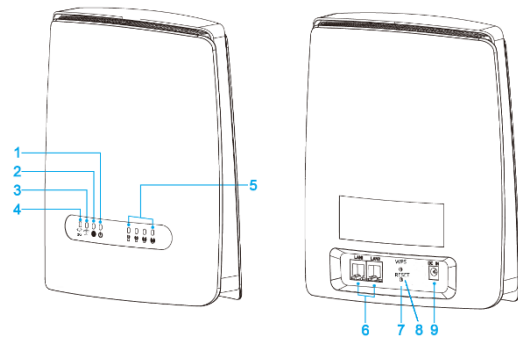
- > LTE Indoor CPE
- > Power Adapter
- > Quick Start Guide
- > Ethernet Cable

If you find any missing or damaged, please contact your local vendor.

GETTING STARTED

The figures provided in this document are just for reference only, please prevail in kind.

Equipment Appearance



1	POWER Indicator	4	5G WiFi Indicator	7	Reset Button
2	Internet Indicator	5	Signal Indicator	8	WPS
3	2.4G WiFi Indicator	6	LAN1,LAN2/WAN Port	9	Power Port

LED INDICATION



Indicator	Status	Description
WiFi 5G	Steady on	5G Wi-Fi available
	Off	5G Wi-Fi unavailable
	Blinking (500ms interval)	Data transmission
	Blinking (1s interval)	Setting up WPS connection
WiFi 2.4G	Steady on	2.4G Wi-Fi available
	Off	2.4G Wi-Fi unavailable
	Blinking (500ms interval)	Data transmission
	Blinking (1s interval)	Setting up WPS connection
INTERNET	Steady on	Internet Available
	Off	Internet Unavailable
	Blinking (500ms interval)	Data transmission
POWER	Steady on	Power on
	Off	No power supply
SIGNAL	Steady on	Display the current LTE network signal, the stronger signal, the more bars on
	Off	No Signal
	All SIGNAL LED Blinking (1s interval)	Searching network of LTE
	Blinking one by one	Firmware upgrade

INTERFACE AND BUTTON



Interface & button	Description
DC IN	DC power input port
LAN1 LAN2/WAN	Connect computer, switches (non-Poe devices) or other LAN devices
RESET	Press 1s to reboot device. Press 5s and more, CPE will restore to factory mode. ⚠ You will lose user defined settings once you reset CPE. So, be cautious to click Reset Button.
SIM	USIM Slot
WPS	Quick set up for Wi-Fi connection or Mesh link

SET UP THE HARDWARE

Insert SIM Card

If you want to remove the SIM card, please lightly press the SIM card, the SIM card will pop out. Make sure the CPE is turned off before you insert or remove your SIM card.

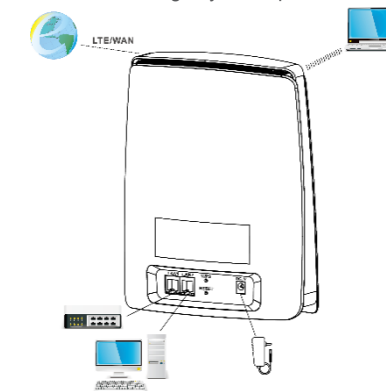
Otherwise, the CPE and SIM card may be damaged.

Please insert your SIM card as following:



HARDWARE CONNECTION

The figure is just for reference only, please connect the hardware according to your requirements.



Step 1 Connect the supplied power adapter to the CPE.

Step 2 Connect other devices.

- You can connect your computer or classic Switch via Ethernet cable to LAN port.

- You can connect your laptop via Wi-Fi.

When you are using the CPE, you can adjust the position and direction of CPE to get stronger LTE signal, you can judge from the LTE signal LED indicator.

SETUP CPE

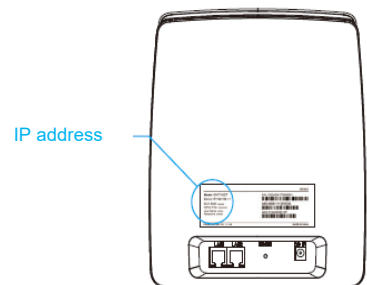
Login the Web Management Page

Use a browser to log into the web management page to configure and manage the CPE.

Step 1 Connect the CPE properly. You can connect to device via Ethernet cable or Wi-Fi.

Step 2 Launch Internet Explorer, enters `http://192.168.1.1` in the address bar, and presses Enter.

Step 3 Enter the user name and password, and login.



You can login to the web management page after the password is verified.

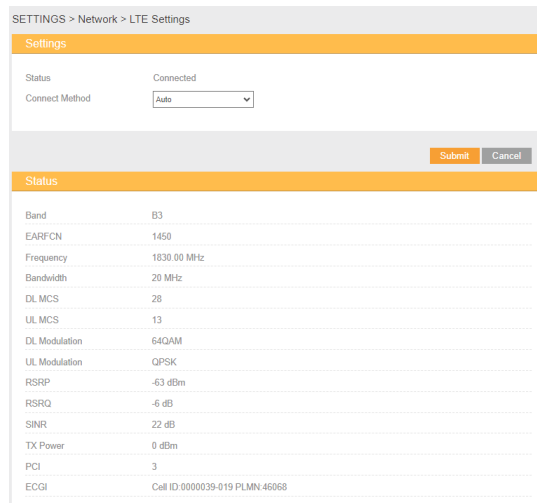
LTE SETTING

Step 1 Connect the CPE properly.

Step 2 Login to the web management page.

Step 3 Choose Network → LTE Setting.

Step 4 Set Connect Method.



SETTINGS > Network > LTE Settings

Settings

Status: Connected

Connect Method: Auto

Submit Cancel

Status

Band	B3
EARFCN	1450
Frequency	1830.00 MHz
Bandwidth	20 MHz
DL MCS	28
UL MCS	13
DL Modulation	64QAM
UL Modulation	QPSK
RSRP	-63 dBm
RSRQ	-6 dB
SINR	22 dB
TX Power	0 dBm
PCI	3
ECGI	Cell ID:000039-019 PLMN:46068
...	..

The default configuration are Auto connect and scan full band, if you want to connect the LTE network accord your requirement, you can set the Connect Method as Manual, and just scan some specified band.

WI-FI SETTING

Step 1 Connect the CPE properly.

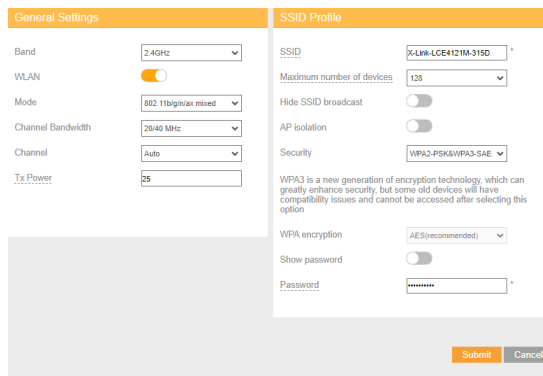
Step 2 Login the web management page.

Step 3 Chose Settings →Wi-Fi →WLAN Setting.

Step 4 In the Setting area, modify the SSID, such as "Xlink-router".

Step 5 To ensure your data safety, it is recommended that you change the default Wi-Fi password.

Step 6 Click Submit to save the configurations.



General Settings

Band: 2.4GHz

WLAN:

Mode: 802.11b/g/n/x mixed

Channel Bandwidth: 20/40 MHz

Channel: Auto

Tx Power: 25

SSID Profile

SSID: X-LINK-LCE4121M-315D

Maximum number of devices: 128

Hide SSID broadcast:

AP Isolation:

Security: WPA2-PSK/WPA3-SAE

WPA3 is a new generation of encryption technology, which can greatly enhance security, but some old devices will have compatibility issues and cannot be accessed after selecting this option

WPA encryption: AES(recommended)

Show password:

Password: *****

Submit Cancel

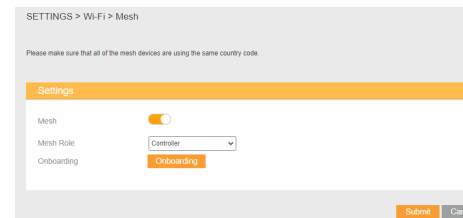
MESH SETUP

LCE4121M is controller, and LCE4121S is agent.

Step 1 Make sure all the devices is under manufacture status.

Step 2 Power on the LCE4121S and LCE4121M. Login to CPE Web via "192.168.1.1", visit "SETTINGS > Wi-Fi > Mesh" and enable Mesh. Set LCE4121M as controller, LCE4121S as Agent. Reboot them before next step.

Step 3 Push WPS button on both Controller & Agent devices, and wi-fi led start blinking. When the mesh is established, the led will turn to stead on.



SETTINGS > Wi-Fi > Mesh

Please make sure that all of the mesh devices are using the same country code.

Settings

Mesh:

Mesh Role: Controller

Onboarding:

Submit Cancel

FAQs

Can not access to WebUI?

- Make sure device work as controller mode. Reset the factory to make sure it work under controller.

How to setup mesh network manually?

- Press controller's and agent's WPS button to setup manually.

FCC Compliance Statements

Dose it can setup mesh with other brand's router?

- No..

The CPE fails to search for the wireless network.

- Check that the power adapter is connected properly.
- Check that the CPE is placed in an open area that is far away from obstructions, such as concrete or wooden walls.

Check that the CPE is placed far away from household electrical appliances that generate strong electromagnetic field, such as microwave ovens, refrigerators, and satellite dishes.

This product has reached the standard of shipment inspection.



Notice

Some features of the product and its accessories described herein rely on the software installed, capacities and settings of local network, and may not be activated or may be limited by local network operators or network service providers, thus the descriptions herein may not exactly match the product or its accessories you purchase.

Leax Arkivator Telecom USA Inc. reserves the right to change or modify any information or specifications contained in this manual without prior notice or obligation.

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: 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.

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

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 minimum distance 20cm between the radiator and your body.