Introduction

LCE122A

LTE Outdoor CPE

Quick Start Guide >

TE outdoor CPE is a highly advanced LTE outdoor multi-service product solution specifically designed to meet integrated data needs for residential business and enterprise users. The product supports advanced Gigabit networking functionalities. It enables wide service coverage and provides high data throughput and networking features to customers who needs easy broadband access

Panel of device





How does it work

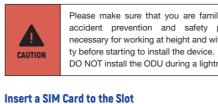
Packing List

1 Connect the Power Adapter to PoE injector 2. PoE injector provides the power to ODU via LAN cable. 3. PC connects LAN Cable to PoE, then PC can surf the Internet when ODU accesses the LTE network

This quick installation guide shows you how to configure your ODU in order to access the Internet.

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Configure hardware





To connect the CAT5e (or above) Ethernet cable:

See the installation instructions to mount the ODU correctly Step 1 CAT5e (or above) cable to thread through the cable glands. Step 2 Connect the end of the CAT5e (or above) Ethernet cable to the PoE port of the ODU. Step 3 Wiring the cable glands into ODU and seal tightly.

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NOTE: Make sure you have inserted the SIM card into the ODU. 6

		ODU				Settings	
POWER	Steady on	Power on				Status	Connected
POWER	Off	No power supply	0			Connect Method	Auto
	Steady on	Internet available					
INTERNET	Off	Internet unavailable		N 6		0	
	Blinking (500ms interval)	Searching network				Status	
	Steady on	SIM ready				DL MCS UL MCS	0
SIM	Off	No SIM detected				DL Frequency	3560.0 MHz
	Green	Signal strong				UL Frequency	3560 0 MHz
	Yellow	Signal good		IN 8 I I SI		Bandwidth	20 MHz
SIGNAL	Red	Signal weak				RSSI	-62 dBm
SIGNAL						RSRP0	-88 dBm
L	Blinking Green and Red					RSRP1	-86 dBm
						RSRQ	-6 dB 30 dB
Configure the CPE						TX Power	0 dBm
						PCI	42
			Step 3 Enter the user name and p You can connect to the managem			CINR0	28.6 dB
Login to the website Use a browser to access the management web page to configure and manage the CPE.			is verified.	ent web page after the password			etting is automatio
							nt to connect to th
							set the connection
					scan	a specific band.	
	7 or above version a	rribes how to use a computer running and Internet Explorer to connect to the	Configuration of LTE				
Step 1 Connect to the CPE correctly. Step 2 Start Internet Explorer, type http://192.168.225.1 in the address bar, and press Enter.			 Step 1 Connect to the CPE correctly. Step 2 Go to the management website. Step 3 Choose Settings → Network → LTE Settings. Step 4 Set the connection mode and scan mode. 				
	Q		6				9

Please make sure that you are familiar with all accident prevention and safety procedures necessary for working at height and with electrici DO NOT install the ODU during a lightning storm

Make sure the ODU is turned off before you insert



Mounting Bracket

Header Connection



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Choose a location

The ODU can be mounted on an antenna pole or mast or on a wall using the supplied mounting bracket.

· Choose a mounting point that is sturdy enough to hold the ODU, even during high winds.

· When choosing a location to install the ODU, please note that the ODU's front panel should point towards your service provider's nearest base station. You do not need to be able to see the base station from the ODU's position. However, if you experience difficulties with signal reception, a Line of Sight (LoS) connection may produce better results.

· It is suggested that you transport the ODU to its intended installation location in its original protective package.

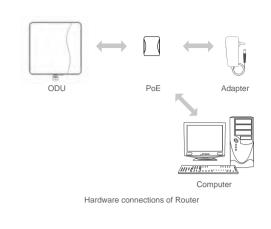
To obtain the best radio signal level and connection quality, the CPE antenna should be aimed towards the best eNB or BS directly.To search for the best eNB direction, the user can rotate the CPE slowly and tilt CPE slightly to find the best signal direction. The CPE radio signal strength level can be observed from the RF LEDs mounted on the lower panel as shown below. Different colored LEDs represent different signal strength.

Connect the PoE

Place a CAT5e (or above) Ethernet cable (not included) from the location of your intended Router to the desired PC location.

If you intend to use cable clamps or other methods to secure the cable, do not tighten them until you finish installing the Router and ODU.

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Step 1 Connect the CAT5e (or above) Ethernet cable to PoE



Do not connect to a computer or switch directly to the PoE port due to high PoE power.

Step 2 Connect the power adapter to the PoE injector. The POWER LED turns on a solid green-yellow once connected. Step 3 Connect the included Ethernet cable from the computer to one of the Router's Ethernet ports.

LED Behavior

When setting up the Outdoor Unit, the LED will have the following behavior.

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Frequently Asked Questions

The POWER indicator does not turn on.

 \cdot Make sure that the power cable is connected to the PoE, and the CPE is connected to the right port of the PoE. · Make sure that the power adapter and PoE are compatible with the CPF

Fails to Log in to the web management page.

· Make sure that the CPE is powered on.

 \cdot Verify that the CPE is correctly connected to the computer through a network cable.

If the problem persists, contact authorized local service suppliers.

The CPE fails to search for the LTE network.

· Check that the power adapter and PoE have connected to the CPE properly

· Check that the CPE is placed in an open area that is far away from obstructions, such as concrete or wooden walls. \cdot 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.

If the problem persists, contact authorized local service suppliers.

The CPE power adapter has overheated

 \cdot The CPE is heated after being used for long time. Therefore, you must turn off the CPE when not you are using. \cdot Check that the CPE is properly ventilated and protected from direct sunlight

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The parameters are restored to default values

· If the CPE powers off unexpectedly while being configured, the parameters may be restored to the default settings. · After configuring the parameters, download the configuration file to quickly restore the CPE to the desired settings.



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.

We reserves the right to change or modify any information or specifications contained in this manual without prior notice or obligation.

FCC ID: 2AVFNLCE122A



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.



FCC Regulations:

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 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. Changes or modifications not expressly approved by the manufacturer could void the user's authority to operate the equipment.

FCC RF Radiation Exposure Statement

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. To comply with FCC RF Exposure compliance requirements, this grant is applicable to only Mobile Configurations. The antennas used for the transmitter must be installed to provide a separation distance of at least 27cm from all persons and must not be co-located or operating in conjunction with any other antenna or transmitter.

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