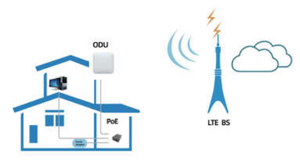
LTE CPE

OCBX12

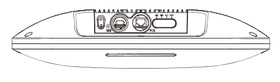
Quick Start Guide ▶

Introduction

OCBX12 is an advanced LTE Advanced and LTE outdoor multi-service product solution specifically designed to meet integrated data needs for residential and enterprise users. The product supports advanced Gigabit networking functionalities. It enables wide service coverage and provides high speed data throughput and networking features to subscribers who require reliable, high performance broadband access.



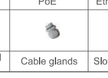
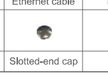
DEVICE PORTS & LEDs



- I/O panel of ODU -

Packing List

Ensure you have everything required to install the device.

ODU	PoE	Ethernet cable	Bracket
			
Stainless steel clamp	Cable glands	Slotted-end cap	

Overview

1. Connect the power supply cable to the PoE.
2. PoE injector provides the power to ODU via LAN cable.
3. LAN cable and PoE connect to the PC, so that PC can access the Internet when ODU connects to the LTE network.

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

Configure hardware

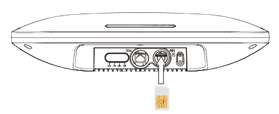
CAUTION

Please ensure you are familiar with all accident prevention and safety procedures necessary for working at height and with electricity before starting to install the device.
DO NOT install the ODU during a lightning storm.

Insert a SIM Card in the Slot

CAUTION

Ensure the ODU is turned off before you insert your SIM card. When you insert the SIM card do not have the PoE cable connected.



Installing the ODU

To connect the CAT5e (or above) Ethernet cable:

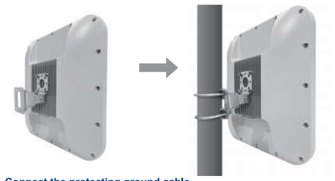
See the instructions below for correct ODU installation .

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.

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

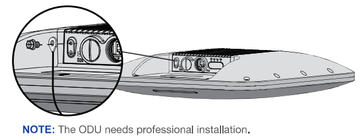
Header Connection

Mounting Bracket



Connect the protecting ground cable

Put the grounding screw through the hole of the grounding wire, screw it into the grounding hole of the metal shell (select one of the two holes), and connect the other end of the grounding wire to earth.



NOTE: The ODU needs professional installation.

Choose Location

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

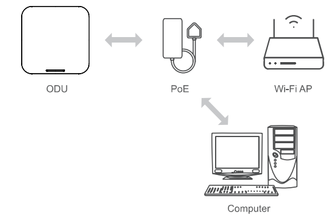
·Choose a mounting point that is sturdy enough to hold the ODU, even in high winds.
·When choosing a location to install the ODU, please note that the ODU's front panel should point towards your service provider's nearest base station. You do not need to be able to see the base station from the ODU's 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, Switch or Wi-Fi AP.

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.



Hardware connections of Router

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

CAUTION

Do not connect a computer or switch directly to the PoE port (Power+Data out) to avoid any equipment damage.

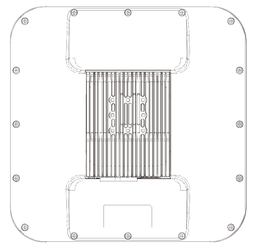
Step 2 Connect the power supply cable to the PoE. The POWER LED turns on a solid green once connected.
Step 3 Connect the included Ethernet cable from the computer to one of the Router's Ethernet ports.

LED Indications

When setting up the Outdoor Unit, the LED display will show the following:

For Technical Support
please contact your Internet Service Provider

ODU LEDs Display		
POWER	Steady green light	Power on
	No light	No power supply
INTERNET	Steady green light	Internet available
	No light	Internet unavailable
	Blinking green light (500ms/ interval)	Searching network
SIM	Steady green light	SIM ready
	No light	No SIM detected
SIGNAL	Steady green light	Signal strong
	Steady yellow light	Signal good
	Steady red light	Signal weak
	Blinking green and red	Firmware upgrade



Configure the CPE

Login to the website

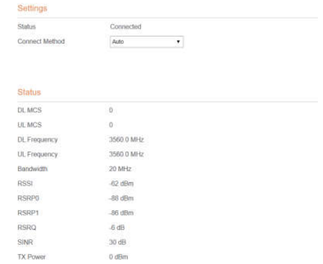
Use a browser to access the management web page to configure and manage the CPE.
The following procedure describes how to use a computer running Windows 7 or above version and Internet Explorer to connect to the CPE webpage.

Step 1 Connect to the CPE.
Step 2 Start Internet Explorer, type http://192.168.0.1 in the address bar, and press Enter.

Step 3 Enter the user name and password, and click Log In.
You can connect to the management web page after the password is verified.

Configuration of LTE

Step 1 Connect to the CPE.
Step 2 Go to the management website.
Step 3 Choose Settings → Network → LTE Settings.
Step 4 Set the connection mode and scan mode.



The default setting is to establish an automatic connection after a full band scan, if a more specific LTE connection is required, set the connection mode to manual and scan a specific band.

Troubleshooting

The POWER indicator does not turn on.

· Ensure the PoE injector's power cord is connected to an electric wall-socket, and the CPE is connected to the correct port of the PoE injector.

Failure to Log in to the web management page.

· Ensure the CPE is powered on.
· Verify that the CPE is correctly connected to the computer through a network cable.
If the problem persists contact authorized local service center.

The CPE fails to attach to the LTE network.

· 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 a strong electromagnetic field, such as microwave ovens, refrigerators, and satellite dishes.
If the problem persists, contact your Internet Service Provider.

The parameters are restored to default values.

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

QC: QC PASS NO.1

Notice

Some features of the product and its accessories described herein rely on the software installed, capacities and settings of the 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 reserve the right to change or modify any information or specifications contained in this manual without prior notice or obligation.

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 to 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 both the product warranty and 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 50cm from all persons and must not be co-located or operating in conjunction with any other antenna or transmitter.