



Global7243A

LTE Window CPE
Quick User Guide V1.0

PLEASE READ THESE SAFETY PRECAUTIONS!

RF Energy Health Hazard



The radio equipment described in this guide uses radio frequency transmitters. Although the power level is low, the concentrated energy from a directional antenna may pose a health hazard. Do not allow people to come in close proximity to the front of the antenna while the transmitter is operating.

Protection from Lightning



Before connecting this instrument to the power line, make sure that the voltage of the power source matches the requirements of the instrument. The unit must be standards.

Disposal and Recycling Information



Pursuant to the WEEE EU Directive electronic and electrical waste must not be disposed of with unsorted waste. Please contact your local recycling authority for disposal of this product.

FCC Notice, USA

The LTE CPE complies with Part 22/24/27/90 of the FCC rules. Operation is subject to the following two conditions:

- This device may not cause harmful interference.
- This device must accept any interference received including interference that may cause undesired operation.

This device is specifically designed to be used under Part 15B of the FCC Rules and Regulations. Any unauthorized modification or changes to this device may void the user's authority to operate this device.

Furthermore, this device is intended to be used only when installed in accordance with the instructions outlined in this manual. Failure to comply with these instructions may also void the user's authority to operate this device and/or the manufacturer's warranty.

NOTE 1: 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.

The transmitter must not be colocated or operated in conjunction with any other antenna or transmitter. This equipment complies with the FCC RF radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with a minimum distance of 20cm between the radiator and any part of your body.

The Product intended for an end-user to install in outdoor

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1. Overview

The Global7243A is highly innovative and patented LTE window mounted CPE product designed to enable quick and easy LTE fixed data service deployment for residential and SOHO customers. It provides high speed LAN services to end users who need both bandwidth and multi-media data service in enterprise or home. It can also be used to support wireless fall back service.



1.1. User Interface Specification

| Model | Description & User Interface |
|--------------------|---|
| Global7243A | <ul style="list-style-type: none">- 1 RJ45 10/100/1000M LAN port- SYS, SIM, ETH, RF (5 Signal intensity LEDs)- PoE DC 48V, Power < 18 Watts (Average)- Dimensions: 281 mm (L) x 281 mm (W) x 43 mm (D)- Weight: <1.5Kg- Operating Temperature: -30°C to 55°C- Storage Temperature: -30°C to 85°C- Humidity 5% to 95% |

1.2. LTE Interface Specification

| | |
|-----------------|--|
| Frequency Bands | Basic Band: B25, B26, B41 Roaming Band: B2, B4, B5, B12, B66, B71(not support for this model) |
| Radio Access | 3GPP LTE Release 11 |
| Operation Mode | TDD or FDD, 8RX, 1TX, down link down link, not support MIMO |
| Throughput | Category 12 |
| SIM Support | SIM card slot (3FF) |

2. Getting Started

2.1. Packing list and CPE Unit

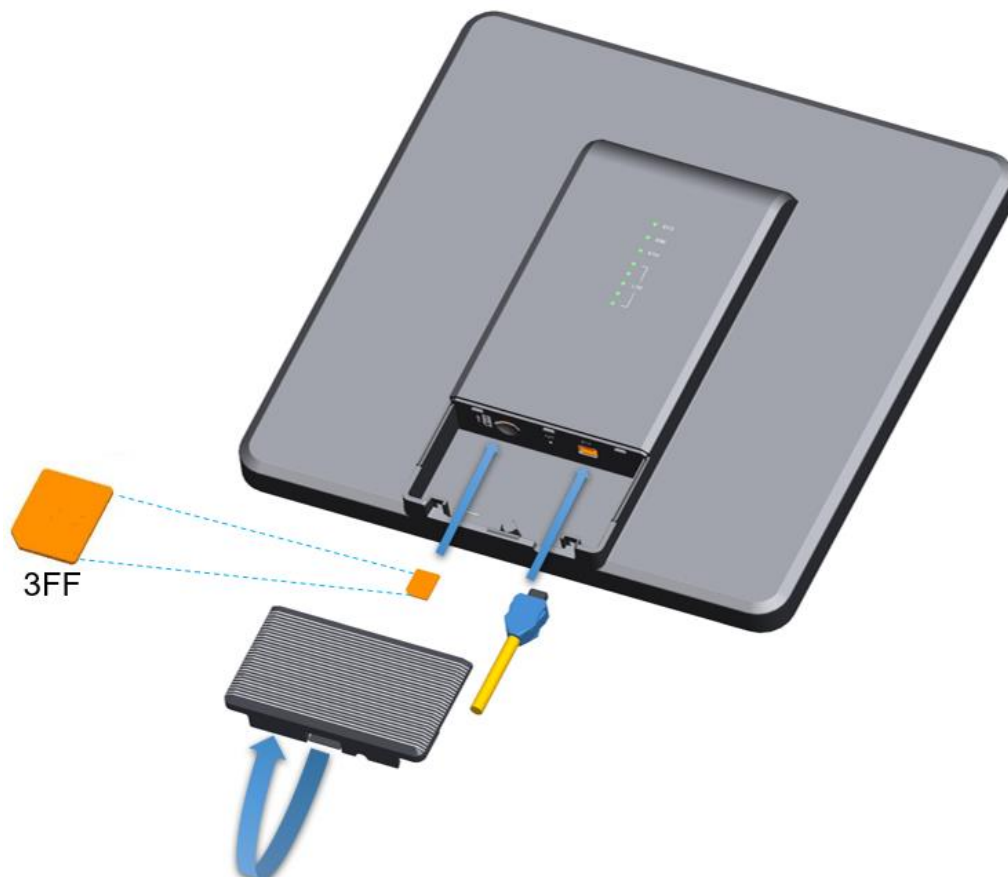
Upon receiving the product, please unpack the product package carefully. Each product is shipped with the following items:

Table 2-1 Packing List

| Products | Quantity |
|------------------|----------|
| WDU Unit | 1 |
| ETH cable 2.0M | 1 |
| PoE Adapter | 1 |
| Power cord 1.5M | 1 |
| Quick user guide | 1 |

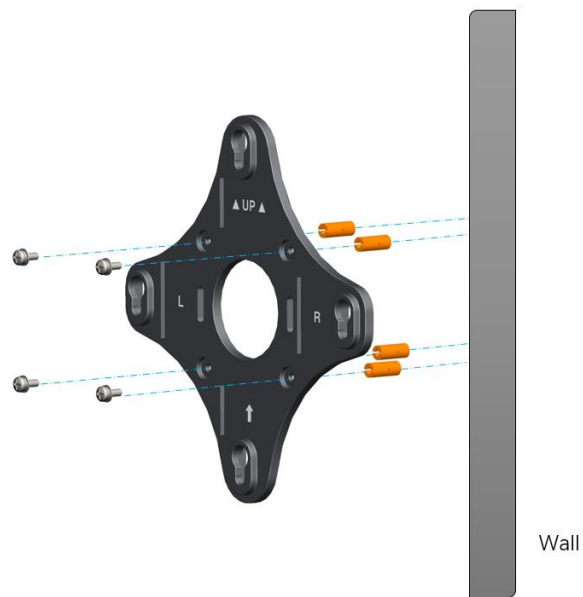
If you find any of the items missed, please contact your local distributor immediately.

2.2. Installing the Equipment

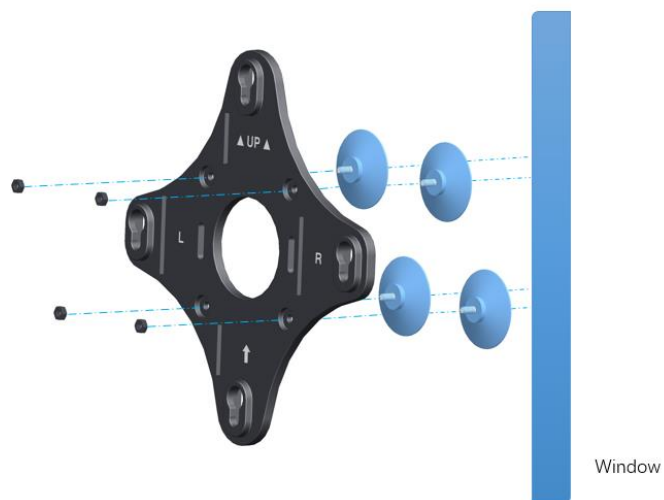


Open the cover, insert the SIM card and connected the ETH cable.

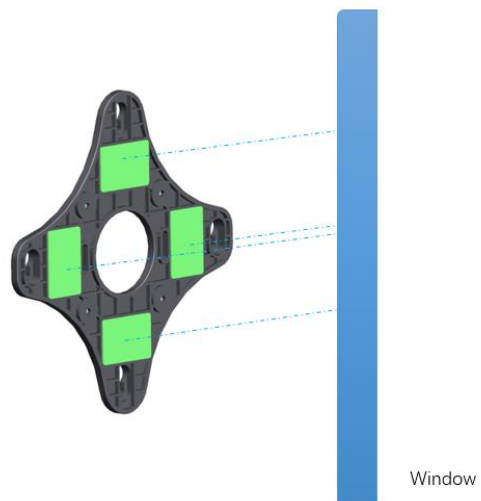
■ Mounting Bracket



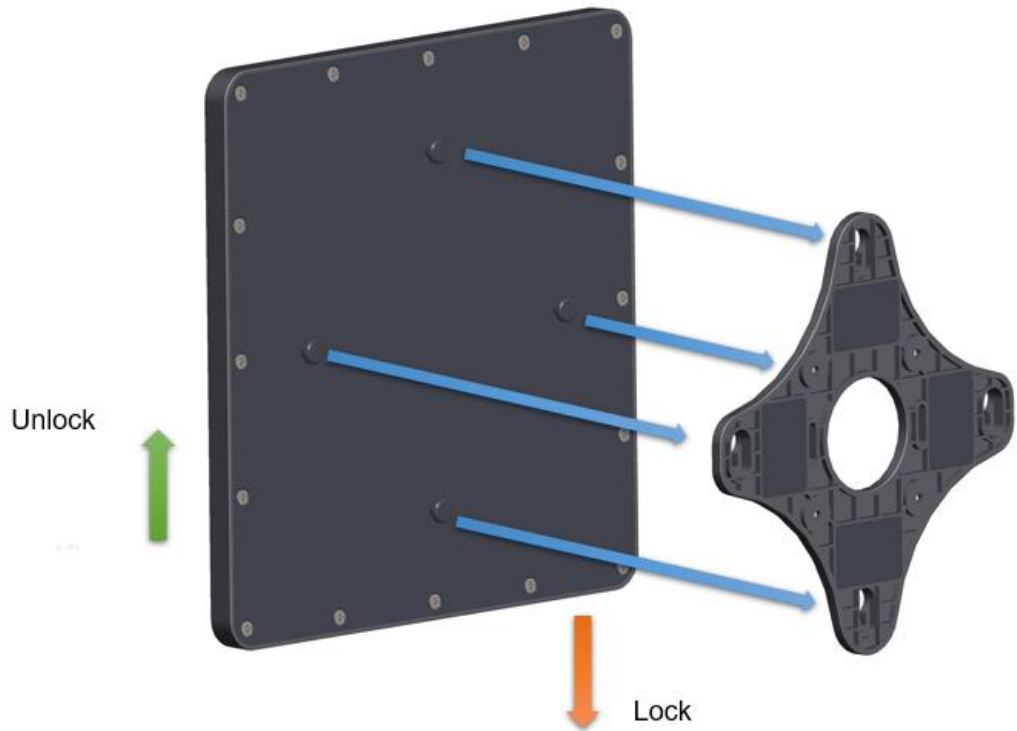
Using screws to fixed.



Using a suction cup to fixed.

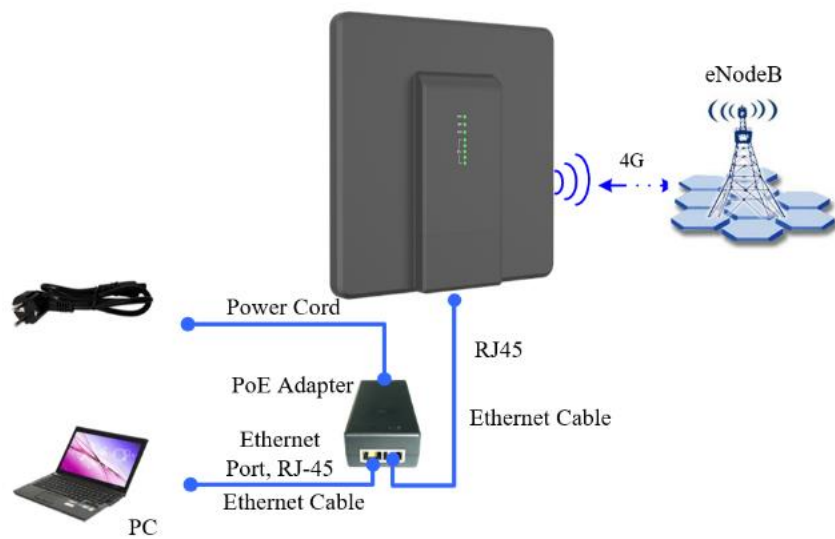


Use stickers to fixed.



Install the device to the bracket.

■ Device logic connection



■ LED Display

| LED | Function | Description |
|---------------|----------------------|--|
| SYS | System run indicator | Solid green – Device is in normal operation. |
| SIM | SIM card indicator | Light is on – SIM card state is ready, Blinking Green – SIM card is error. |
| ETH | LAN port status | Solid Green – LAN port is up. Blinking Green –LAN port in working. |
| RF (5LEDs) | RF Signal Strength | 5 level signal strengths indication by 5 green LEDs. 1st Green LED: $-115\text{dBm} < \text{RSRP}$ 2nd Green LED: $-115\text{dBm} \leq \text{RSRP} < -105\text{dBm}$ 3rd Green LED: $-105\text{dBm} \leq \text{RSRP} < -95\text{dBm}$ 4th Green LED: $-95\text{dBm} \leq \text{RSRP} < -85\text{dBm}$ 5th Green LED: $-85 \leq \text{RSRP}$ |

3. Managing Window CPE Device

3.1 WEB Login

User can access the LTE CPE management GUI using a Web browser from a local PC connected to device LAN port. The user should ensure that the connected PC have acquired IP address via DHCP from the device. After IP connectivity is established between the PC and window CPE device, the user may launch a Web browser and specify <http://192.168.0.1> in the address bar, the default home page will appear.

The screenshot displays the web interface for the Global Telecom Global7243A device. On the left, there is a navigation menu with the following items: System (highlighted), System Info, Maintenance, LTE, Status, Setting, SIM PIN, and OMA-DM. The main content area features the title 'Global Telecom Global7243A' and a welcome message: 'This device is designed to enable quick and portable access to Internet. The WEB GUI is provided for user to quickly view operation status and configure necessary device setting. Thank you for choosing our product and enjoy the convenience it offers!'.

3.2 System configuration

■ Network Information

This page is showing the device network information and the user can change the network interface config.

- System
 - System Info
 - Maintenance
- LTE
 - Status
 - Setting
 - SIM PIN
 - OMA-DM

System Information

» Interfaces

| Name | MAC | IP | NETMASK | Status | MTU |
|----------|-------------------|-------------|---------------|--------|------|
| lte0pdn0 | 6c:ad:ef:fe:9d:a6 | 192.168.7.3 | 255.255.255.0 | UP | 1500 |

» Gateway, Route, DNS

| | | | |
|-----------------|---------------|---------------|--------------|
| Default Gateway | 192.168.7.252 | Primary DNS | 10.3.0.30 |
| Client IP | 192.168.0.71 | Secondary DNS | 180.76.76.76 |

■ Maintenance

This page allows user to update the device firmware version, rest the device to factory setting and reboot the device.

- System
- System Info
- Maintenance
- LTE
- Status
- Setting
- SIM PIN
- OMA-DM

Maintenance

» IP Passthrough

Mode

» Device Local Software Build Update

Filename No file chosen

Status Please select the upgrade file

Note: Upgrade file should have the PRG file extension.

» Remote Software Build Update(FOTA)

Status

» Factory Reset

Reset all settings to factory default values

» Reboot the system

It takes about 45 seconds to reboot the system

3.3 LTE configuration

■ LTE Information

This page showing the LTE information.

- System
 - System Info
 - Maintenance
- LTE
 - Status
 - Setting
 - SIM PIN
 - OMA-DM

LTE Information

» LTE Information

| | | | |
|----------|--|----------------|--|
| Firmware | | IMEI | |
| IMSI | | ICC ID | |
| Hardware | | Software Build | |

» LTE Status

| | | | |
|------------------|--------------|------------------|--|
| UICC State | UICC Ready | Connenction | Connected |
| PDN Type | IPv4 & IPv6 | Connected Time | 1h 28min 50 sec |
| IP v4 Address | 192.168.7.3 | IP v6 Address | ::2001:3000:3000:401 |
| PLMN Search | Success | MCC | 460 |
| PLMN Selected | 46088 | MNC | 88 |
| Physical CELL ID | 2 | CellGlobalID | 460881A2D502 |
| MeanRSSI | -81 | RSSI | -81.7/-87.4/-80.4/-93.6 -92.3/-93.1/-92.4/-92.3 |
| MeanRSRP | -108 | RSRP | -109.7/-129.3/-108.0/-137.9 -138.7/-136.3/-139.5/-138.2 |
| MeanRSRQ | -7.0 | RSRQ | -9.0/-22.0/-8.3/-25.2 -27.2/-22.3/-27.1/-24.7 |
| SINR | 5 | Band | 41 |
| EARFCN | 39790 | BandWidth | 20MHZ |
| MeanTXPower | N/A | TxPower | -21.5/-21.5/-21.5/-21.5 |
| ServCellState | RRC IDLE | Roaming State | Roaming - Roaming charge may apply! |
| TM Mode | TM2 | Rx/Tx Modulation | QPSK/QPSK |
| Rx Throughput | 88 bytes/sec | Tx Throughput | 58 bytes/sec |

» LTE Statistics

| | | | |
|------------|-------|------------|-------|
| Rx packets | 351 | Tx packets | 353 |
| Rx bytes | 29476 | Tx bytes | 20618 |

■ LTE Setting

This page allows user to configure the LTE setting.

System

System Info

Maintenance

LTE

Status

Setting

SIM PIN

OMA-DM

LTE Setting

» LTE Reconnect **Reconnect**

» Roaming

Mode Disabled

Caution: When Roaming is enabled, additional charges may apply!

Apply

» LTE APN

| index | APN Name | IP Type | Auth |
|-------|----------|---------|------|
| 1 | otasn | IPv4v6 | PAP |
| 2 | r.ispsn | IPv4v6 | PAP |

» Support Band

| Index | Band |
|-------|----------|
| 1 | 25,26,41 |

■ SIM PIN

The SIM card menu is used to view the SIM card status.

System

System Info

Maintenance

LTE

Status

Setting

SIM PIN

OMA-DM

LTE SIM PIN

» PIN Information

| | |
|-------------|--------------|
| PIN Status | PIN DISABLED |
| RETRIES PIN | 3 |
| RETRIES PUK | 10 |

Refresh

■ OMA-DM

This page allows user to LTE FOTA test.

System

System Info

Maintenance

LTE

Status

Setting

SIM PIN

OMA-DM

OMA-DM Info

» Information

--> Check OMA-DM Status..

Current Status Normal Session (Running)

» Operation

OMA DM CLI
Update Profile
Update PRL
CI-RTN

4. Troubleshooting

Q1: My PC cannot connect to the CPE.

- Check the PoE adapter LED is on and your PC LAN port is working.

Q2: My CPE networking is not working properly.

- Check and make sure you are within LTE coverage.

Q3: Unable to connect internet while the device is already connected to LTE network.

- Check and verify your computer has the ETH adapter installed and enabled. Unplug the PC Lan port and reconnect again if required.