

# Englewood HGO Small Cell

Model: SCO4255P-BC-A10

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## Quick Installation Guide

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## Chapter 1

# Introduction

Englewood HGO is an outdoor Small Cell, self-configuring small cell device that will be used to CBRS network and LTE coverage at the customer premises.

### Package Contents

Package will include following items:

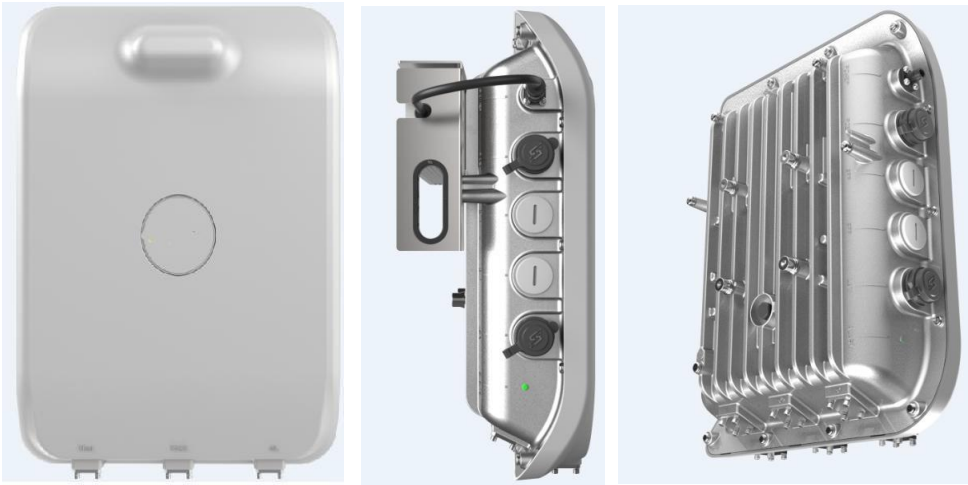
- 1 x Englewood HGO Device
- 1 x AD/DC Power Supply Adapter and bracket
- 1 x Device bracket
- 2 x RJ45 waterproof casing
- 1 x Grounding cable

If any of the above items are damaged or missing, please contact your dealer immediately.

### Key Feature

- ✓ Designed for outdoor Small Office Retention
- ✓ LTE Small Cell Access up to 64 LTE active users
- ✓ 4T4R LTE with internal 9.8dBi antenna
- ✓ Support 4G TD-LTE Band 48 for Small Cell access
- ✓ Support Ethernet for LTE Backhaul
- ✓ Internal GPS antenna

# Interface I/O



Interface Panel

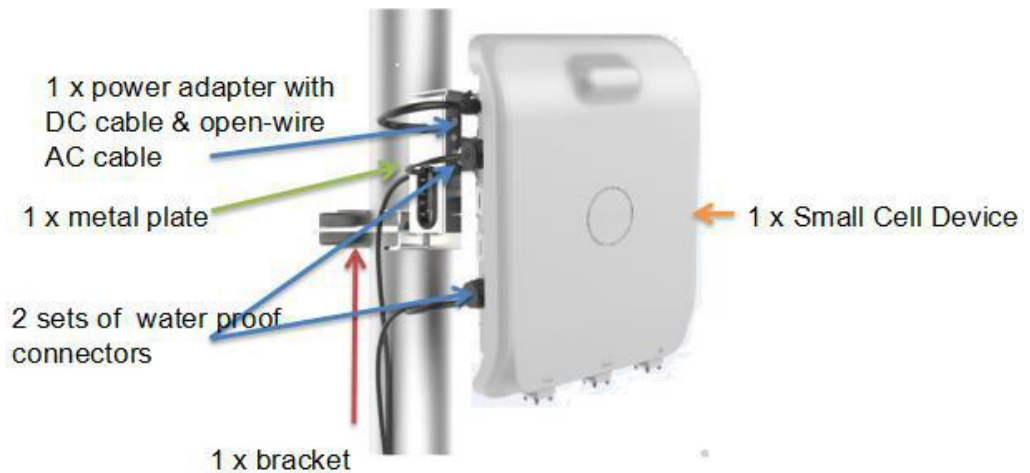
|       |                                                      |
|-------|------------------------------------------------------|
| Power | Input DC 12V/2.5A                                    |
| LAN   | Lan port input for console configuration             |
| WAN   | Wan port for backhaul connect and support PoE+ input |

## Chapter 2

# Initial Installation

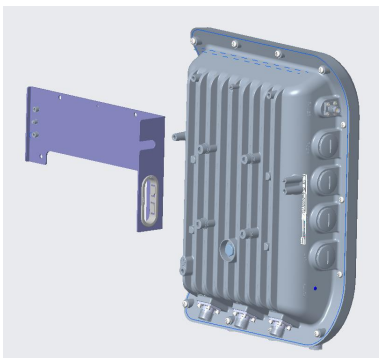
- This mobile broadband base station RF device will provide high quality wireless broadband network coverage. It has an Ethernet port and WAN Internet connection. Follow the steps below to install it.
- Device is outdoor Access Point and must need special trained professional in configuring and installing the product.

## Installation



### Step1:

4 screws are attached to the lock M5\*14, fix the power bracket on the bottom shell



Step2:

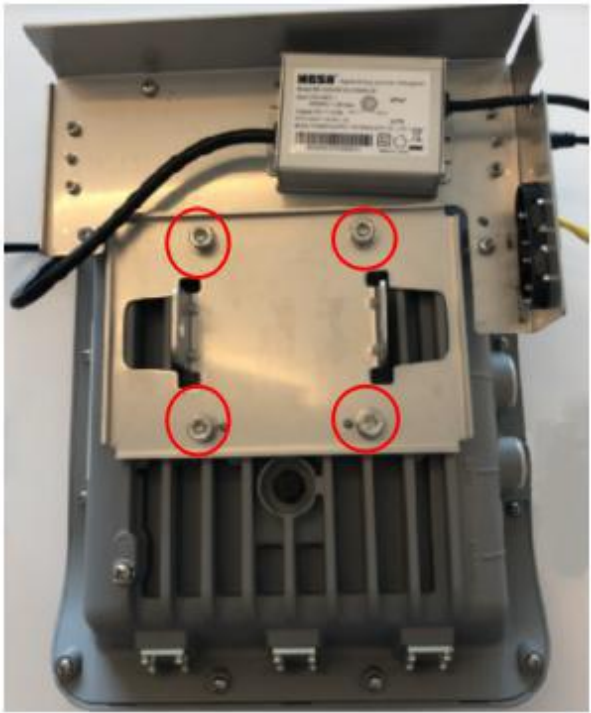
Place the power adapter On the power bracket

(The connector of the Power adapter corresponds with the power port )



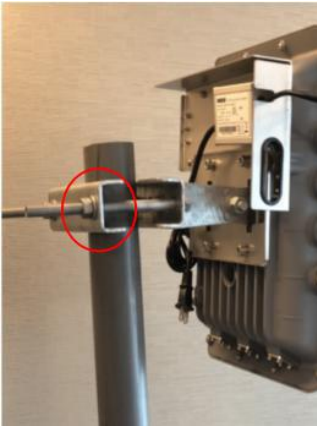
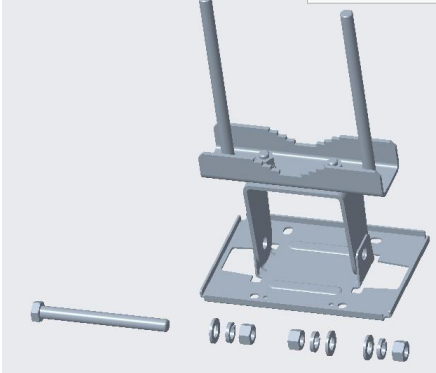
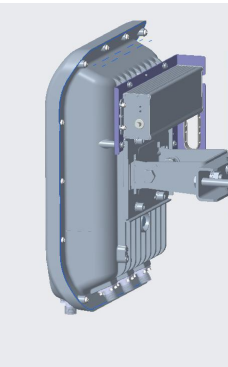
Step3:

Assemble fixing bracket, lock with M8\*16 screws



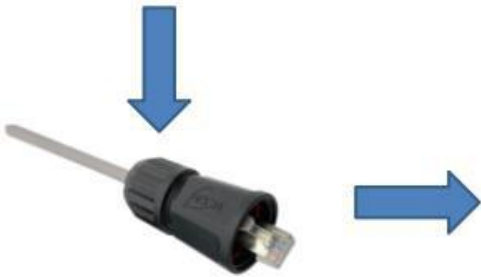
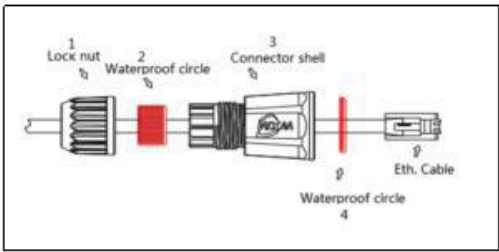
Step4:

Assemble the base station bracket, and lock the bolts and screws after adjusting the Angle required by the device.



Step5:

Install the RJ45 cable



Step6

Instal| the ground cable



Connect to here



# Chapter 3

## Specifications



### General Specification

|                       |                                                                                                                                                          |
|-----------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------|
| Connectivity          | <ul style="list-style-type: none"><li>- 4x Internal LTE Antennas</li><li>- 2x Ethernet connection</li></ul>                                              |
| Power Supply          | External Power Adapter:<br>Input: AC100 ~ 240V, 50Hz/60Hz, 1.2A Max.<br>Output: 12 Vdc, 2.5A                                                             |
| Operating Requirement | Operating Temp. -40°C to 55°C<br>Storage Temp. -40°C to 70°C<br>Operating Humidity 5% to 90% Non-Condensing<br>Storage Humidity 5% to 95% Non-Condensing |
| Housing               | 410mmx286mmx115 mm                                                                                                                                       |

### RF Characteristics

|               |                       |                                  |
|---------------|-----------------------|----------------------------------|
| LTE Access RF | Transceiver           | QCA FTR8900                      |
|               | Working LTE frequency | 3550MHz~3700MHz (B48)            |
|               | Technology            | 4T4R MIMO, DC(Dual Carrier Mode) |
|               |                       | 24dBm Max per chain (Conduced)   |
|               | Tx Power(B48)         | B42/B43/B48                      |
|               | Listening bands       | 10, 20 MHz                       |
|               | Bandwidth Supported   |                                  |

## FCC Statement

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 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.

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

This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.

Operations in the 5.15-5.25GHz band are restricted to indoor usage only.

### **Radiation Exposure Statement:**

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 53cm between the radiator & your body.

Note: The country code selection is for non-US model only and is not available to all US model. Per FCC regulation, all WiFi product marketed in US must fixed to US operation channels only.

# Safety Information

All instructions, warning and caution statements that accompany this equipment must be strictly followed at all times to ensure its safe use. Observe all warning and caution symbols that are fixed to this equipment. This electrical equipment is designed with the utmost care for the safety of those who install and use it. However, when using this device, basic safety precautions should always be followed to reduce the risk of fire and injury to persons, and the dangers of electric shock and static electricity. Do not cover the device or block the airflow to the device with any other objects. This product was qualified under test conditions that included the use of the supplied cables between system components. To be in compliance with regulations, the user must use the cables supplied with the unit and install them properly. This includes the power adapter that is provided. Place the unit to allow for easy access when disconnecting the power adapter from the mains wall outlet. Operate this product only with the type of power source indicated on the marking label. If you are not sure of the type of power supplied to your home, consult your dealer or local electricity company. Do not use this product near water, for example a swimming pool or a bathroom. Keep the device away from excessive heat and humidity and keep the device free from vibration and dust. Wipe the unit with a clean, dry cloth. Never use cleaning fluid or similar chemicals. Do not spray cleaners directly on the unit or use forced air to remove dust. Avoid installing or using this product during an electrical storm. There may be remote risk of electric shock from lightning. During a lightning storm for added protection please unplug it from the wall outlet and disconnect all cables. This will prevent damage due to lightning and power surges. For safety reasons, only authorized service technicians should open the device. If the device is opened the warranty will become void. The device may affect medical equipment and so please take account of any technology restrictions with this equipment. This device, like other radio devices, emits radio frequency electromagnetic energy, but operates within the guidelines found in radio frequency safety standards and recommendations. It is recommended that the minimum operating distance from the installed Access Point to persons is 53cm.

## General Hazard Statement

Safety notes are marked with symbols. Ignoring the safety notes may lead to personal injury, damage to the instrument and malfunctions.

Signal Words identify the hazard severity level as follow:

| Signal word | Meaning                                                                                                   |
|-------------|-----------------------------------------------------------------------------------------------------------|
| DANGER      | Indicates an extremely hazardous situation which, if not avoided, will result in death or serious injury. |
| WARNING     | Indicates a hazardous situation which, if not avoided, could result in death or serious injury.           |
| CAUTION     | Indicates a hazardous situation which, if not avoided, could result in minor or moderate injury.          |
| NOTICE      | Indicates a hazardous situation not related to personal injury.                                           |



Contact with energized parts can cause serious injury.

At least one other trained person must be in attendance, who can immediately and safely disconnect the system if necessary.

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This second person must be trained in first aid for emergency purposes



Some parts of all electrical installations are energized. Failure to follow safe work

Practices and the safety warnings may lead to bodily injury and property damage.

For this reason, only trained and qualified personnel (electrical workers as defined in

IEC 60215 or EN 60215 + A1 or in the National Electrical Code or in ANSI/NFPA No. 10) may install or service the installation.



Risk of electric shock

- a) Do not open the AC adaptor housing. Make sure that the AC adapter does not come in contact with liquids.
- b) Use Only the 3-pin power cord with equipment grounding conductor which was supplied with your instrument and only on 3-pin grounded outlet must be used.



The Cooling vents at the right & left of the enclosure can become obstructed, preventing ventilation of the enclosure.

Make sure that the air vent is not obstructed and remains clear at all times.

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## Device Surface Cleaning

You may clean the device case using a cloth dampened with mild liquid detergent (such as Dawn) and water.

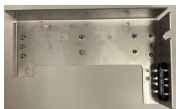
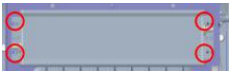


Always unplug/disconnect power before apply any cleaning to Device.

**Warning** Do not submerge the Device or its accessories in water or allow water to enter into the case; this may lead to electrical shock and/or damage

1. The PoE circuits are considered as ES1 circuits, the function of the ITE being investigated to IEC TR 62102 is considered not connection to an Ethernet Network with outside plant routing, including campus environment; and the installation instruction clearly states that the ITE is to be connected only to PoE networks without routing to the outside plant.
2. This product is intended to be use with a UL Listed Optical Transceiver product, Rated DC 3.3V, Laser Class 1.

## Accessories

| Item                                                                                | Description                         | Qty |
|-------------------------------------------------------------------------------------|-------------------------------------|-----|
|    | Power adapter                       | 1   |
|    | Fixing bracket                      | 1   |
|    | Ethernet water proof connector      | 2   |
|    | Power bracket                       | 1   |
|    | Bracket (pole mount )               | 1   |
|    | Mounting screws                     | 3   |
|  | Mounting spring washers             | 3   |
|  | Mounting washers                    | 3   |
|  | Grounding cable                     | 1   |
|  | Fix grounding cable screws          | 2   |
|  | Fix grounding washers               | 2   |
|  | Power Adaptor Mounting Plate Screws | 4   |
|  | Fixing bracket Screw                | 4   |