

# Englewood Small Cell

Model: SCE4255W

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## Quick Installation Guide

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# Chapter 1

## Introduction



Englewood is an indoor, self-configuring small cell device that will be used to CBRS network coverage at the customer premises.

### Package Contents

Package will include following items:

- 1 x Englewood SCE4255W Device
- 1 x AD/DC Power Supply Adapter

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

### Key Feature

- Designed for indoor/Small Office Retention
- LTE Femto Cell Access up to 128 LTE active users
- 4T4R LTE with omni antenna for easy installation
- Support 4G TD-LTE Band 48 for Femto Cell access
- Support fiber SFP and Ethernet for LTE Backhaul
- 4 x LEDs status display and Info Button
- Internal LTE and External GPS antennas

## LEDs

Englewood has 4 LED indicators: Power, LTE (Small cell), and WAN. Table below describes the definition of each of Englewood LED:



Description	Steady ON	Blinking	OFF
<b>Power(Green)</b>	Device is Power On	N/A	Device is Off or No power
<b>LTE(Green/Red)</b>	Green -Connect	Red - Alarm (different flash defined different fault)	No LTE service to user
<b>SYNC(Green)</b>	connected Success- fully	N/A	No connected
<b>WAN(Green)</b>	LTE small cell ready to provide service	Active	No LTE service to user

## Front & Rear Panel

### Front Panel



### Interface Panel



<b>Power</b>	Input: 12 Vdc, 2.5A, Power Jack to Power Adaptor
<b>GPS</b>	External GPS connector
<b>LAN</b>	Lan port input for console configuration
<b>WAN</b>	Wan port for backhaul connect

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## Aside Panel



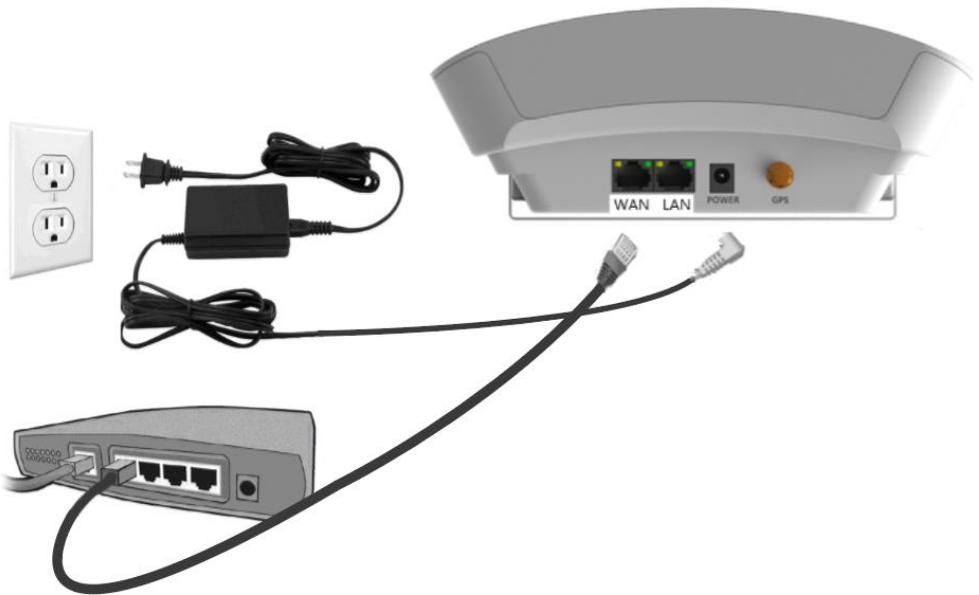
<b>Rest</b>	Factory reset button
<b>SFP</b>	SFP slot for install fiber SFP

## Chapter 2

# Initial Installation

# 2

SCE4255W is designed for Plug-n-Play(PnP) and self-configure which not require any software installation to use. When device power on the device, it will start scanning and search for valid LTE backhaul donor eNB and begin the device Plug PnP and provision processes. The PnP and provision process will take approximate 6~7 min. to bring up and activate the device service.



1. Small cell device provides mobile network SON ( Self-Organizing Network ) , it is plug& play which can auto configuration to install.
2. Install the Ethernet cable into device WAN port and another cable connector connects to router.
3. Install the Power Adapter DC port into device power jack.
4. When Power & LTE LED steady to flash to green, the device can be used. If the one of LED keeps still flashing at 30 minutes, please call your agent.

# Chapter 3

## Specifications



### General Specification

Connectivity	<ul style="list-style-type: none"> <li>- 4 x Internal Antennas</li> <li>- Ethernet or Fiber wired connection</li> </ul>
Power Supply	External Power Adapter: Input: AC100~240V~1.6A, 50Hz/60Hz, 0.9A Max. Output: 12 Vdc, 2.5A
Operating Requirement	Operating Temp. 0°C to 40°C Storage Temp. -5°C to 45°C Operating Humidity 5% to 90% Non-Condensing Storage Humidity 5% to 95% Non-Condensing
Reset button	Reset & Info Button
LED	4 LED for Status.
Housing	210mm(W)x 265mm(D)x 80mm(H)

### RF Characteristics

LTE Access RF	Transceiver	QCA FTR8950
	Working LTE frequency	3550MHz~3700MHz (B48)
	Technology	4T4R MIMO, 2CA(contiguous)
	Tx Power	CAT A
	Listening bands	B48
	Bandwidth Supported	10, 20 MHz

## **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.

### **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 25cm 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 25cm.

### 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.

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

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.



**WARNING**

**Electric-shock hazard**

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 damageDevice Surface Cleaning

## Professional installation instruction

### 1. Installation personal

This product is designed for specific application and needs to be installed by a qualified personal who has RF and related rule knowledge. The general user shall not attempt to install or change the setting.

### 2. Installation location

The production shall be installed at a location where the radiating antenna can be kept 20cm form nearby person in normal operation condition to meet regulatory RF exposure requirement.

### 3. Installation procedure

Please refer to the user manual for the detail.

### 4 Warning

Please carefully select the installation position and make sure that the final output power does not exceed the limit set force in relevant rules. The violation of the rule could lead to serious federal penalty.

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## Accessories

Item	Description	P/N
 A photograph of a white AC/DC adapter with a power cord and a DC output cable.	AC/DC Adapter (without power core) AC100~240V~0.9A, 50Hz/60Hz auto switching, 12 V DC, 2.5A	