



# **Moso Canopy 5G Indoor Model: SCE5164-B78**

## **Installation Guide and User Manual**



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## Introduction

Moso Canopy 5G Indoor (model SCE5164-B78) is an indoor, self-configuring, sub 6G small cell, that is used for a customer sub 6G network at the customer premises.

## Package Contents

Package will mainly include following items:

- 1 x SCE5164-B78 Device
- 1 x 19V 3A AC/DC Power Supply Adapter, and 1x 1.5M Power Cord
- 1 x 1.5M CAT.5E Ethernet Cable
- 1 x 10M GPS Antenna
- 1 x Wall Mount or Ceiling Mount Bracket and Screws Set



























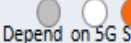

If any of the above items are damaged or missing, please contact your dealer immediately.

## Key

- Designed for indoor/enterprise scenario
- Sub 6G access up to 64 active users
- Support Sub 6G N78 access
- 4 x LEDs for status display
- 2 x Gigabit Ethernet Ports for LAN and WAN, and 1 x Reset Button
- Internal N78 antennas
- GPS SMA connector to connect GPS antenna
- Support PoE++ function on WAN port
- One SFP port reserved
- 1PPS output port reserved

## LEDs

SCE5164-B78 has 4 LED indicators. Table below describes the definition of each LED:

Description	Power	WAN	5G	Alarm
	SW (White)	SW (White/Amber)	SW (White/Amber)	SW (White/Amber)
Femto Power is Off	 Off	 Off	 Off	 Off
Femto Power is On (No Physical Connection for WAN)	 Solid White	 Off	 Off	 Off
Internet is Connecting	 Solid White	 Blink White	 Off	 Off
Internet Connection is Available	 Solid White	 Solid White	 Off	 Off
PnP in Progress	 Solid White	 Solid White	 Blink White	 Off
5G in Service	 Solid White	 Solid White	 Solid White	 Off
Critical Alarm	 Solid White	 Solid White	 Depend on 5G Status	 Solid Amber

## Views

### Top View



### Bottom View



### Back Panel

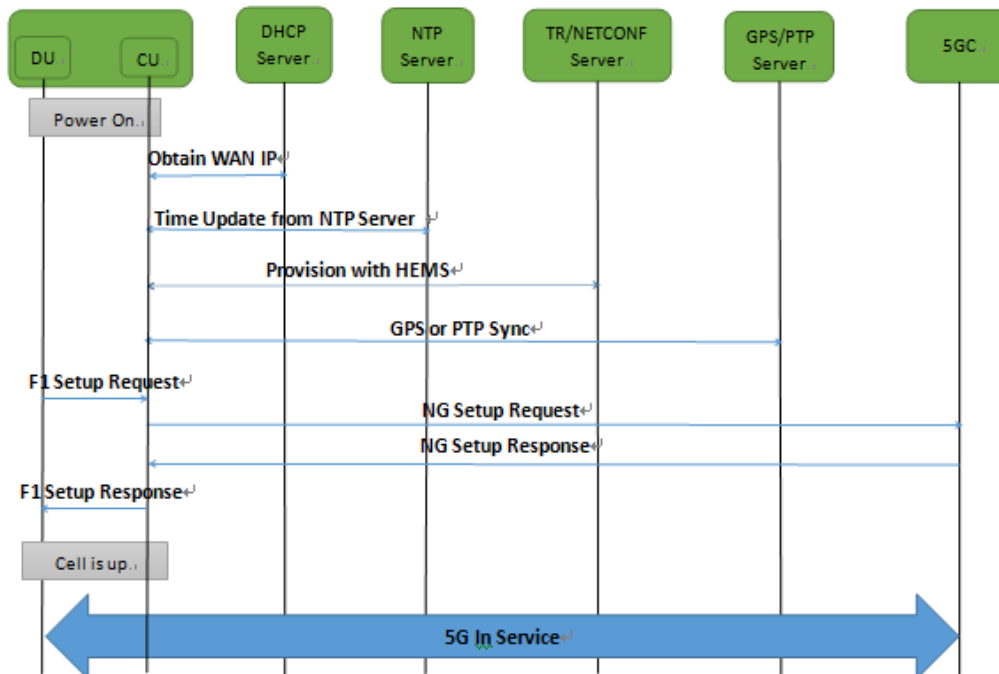
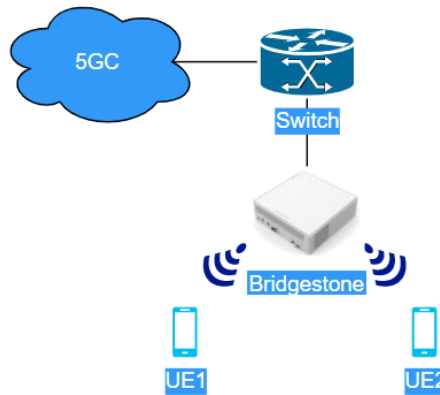


<b>Power</b>	Input: 19V DC, 3A, Power Jack to Power Adaptor
<b>Reset Button</b>	1 x Reset Button for System Reset or Factory Default
<b>ETH1</b>	One Gigabit Ethernet Port
<b>ETH2</b>	One Gigabit Ethernet Port, also supporting PoE++
<b>GPS</b>	GPS SMA connector
<b>SFP</b>	One Gigabit SFP Port reserved
<b>1PPS Output</b>	1PPS output port reserved

## Initial Installation

SCE5164-B78 is designed for Plug-n-Play (PnP) and self-configure which not require any software installation to use. When power on the device with pre provisioned configuration during production in factory, it will begin the device PnP and provision processes. The PnP and provision process will take approximate 20 min. to bring up and activate the device service.

### Network Diagram and Device Start up Procedure



## Mechanical Installation

SCE5164-B78 is designed for wall mount or ceiling mount. Before power on the device, it should have been mechanical installed well enough. The following procedure shows the process step by step.

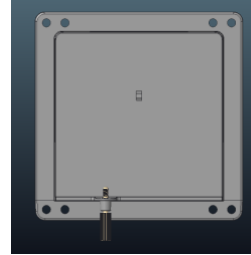
1. Drill holes for 4 anchors in the wall or ceiling.
2. Insert 4 anchors into holes.
3. Place the bracket 4 wall/ceiling mount holes precisely to 4 installed anchors and mount the 4 screws through bracket wall/ceiling mount holes into anchors and tighten the screws one by one.



Anchor

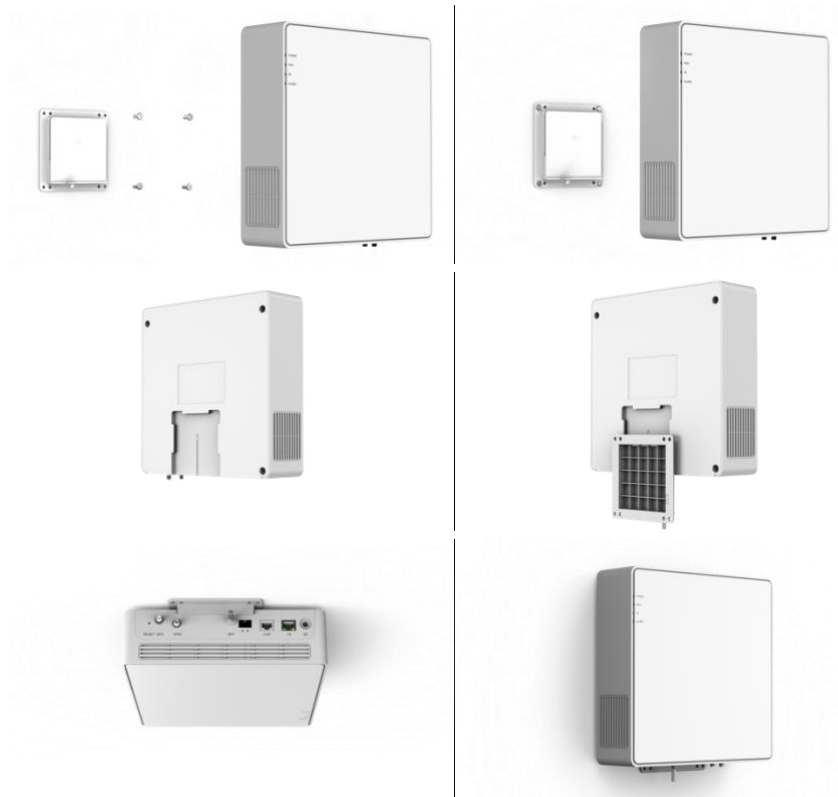


Screw



Bracket

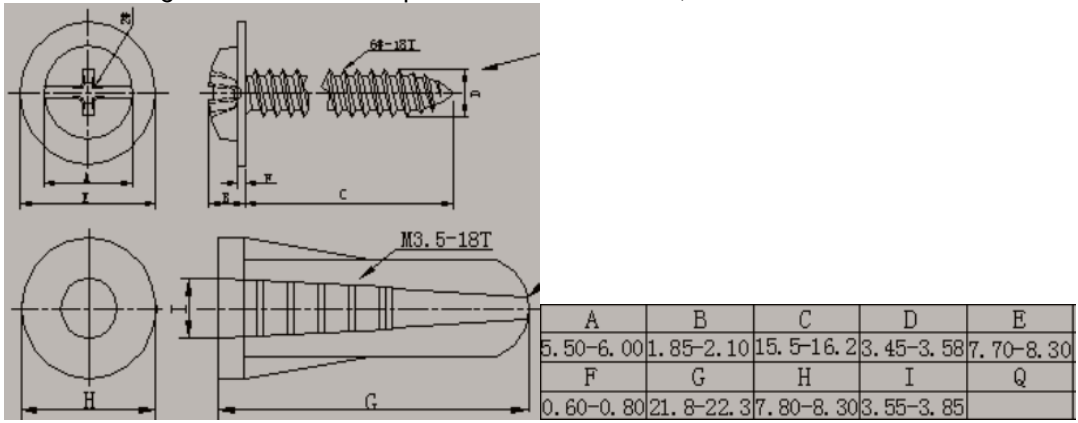
4. Push device slide down the side open cut of bracket, and tighten the fixing screw.



### Note:

1. If installing this device as wall mounting, please make sure Ethernet port is downside.
2. If using PoE++ injector for power supply, please make sure the power source of PoE++ injector is from power socket in house.

3. Wall mounting screw dimension specification is as below, unit is in mm:





## Specifications

### General Specification

Connectivity	1 x Gigabit Ethernet Port for WAN and/or PoE++
Power Supply	External Power Adapter: Input: AC 100-240V~50/60Hz, 1.5A Output: 19V DC, 3A
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	1 x Reset Button
LED	4 x LED for Status.
Housing	240mm(W)x240mm(H)x69mm(D)

### RF Characteristics

<b>Sub 6G Access RF</b>	Chipset	QCA FSM10056
	Band	Band 78
	Technology	2T2R MIMO
	Tx Power	23dBm Max per chain (Conducted)

### Regulatory Requirements

#### CE Statement

This device complies with Directive 2014/53/EU issued by the Commission of the European Community.

#### Declaration of Conformity:

EN55032

EN 303 413

Draft EN 301 908-24

EN 301 489-1

EN 301 489-19

EN 301 489-50

EN 301 908-1

EN 50385

EN 62368-1:2014+A11:2017

EN 62368-1:2014/AC:2015

## 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.

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 adaptor 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.

## Device Surface Cleaning

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



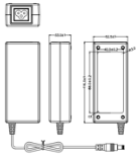
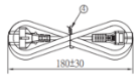



**WARNING**

**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 damage.

## Accessories

Item	Description	P/N
	A Piece of AC/DC Adapter, AC100-240V, 50/60Hz, 1.5A, Output: 19 V DC, 3A	910302190MS
	1 Piece of 1.5M Power Cord	4590001PWE
	A Piece of 1.5M/8P8C#26*4P CAT.5E Blue Ethernet Cable	4550159YEJ
	A Set of Wall Mount or Ceiling Mount Bracket Set	940CXK20VD
	1 Set of 10M GPS antenna	617202KPIQ