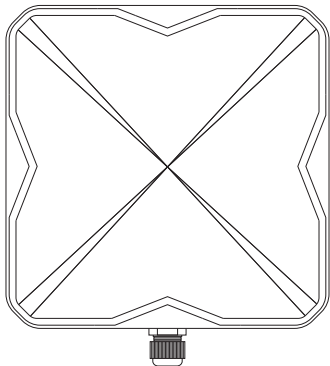


QUICK USER GUIDE



LTE CPE

OA-B48

Before Installing the ODU

- 1. It is important to comply with the precautions listed below before installing.
- 2. It must be installed by qualified service personnel who are well-trained in the correct procedures for installing the equipment.
- 3. Avoid installing or working on equipment in adverse weather conditions.
- 4. Do not disassemble the product. Warranty void if seal is broken.
- 5. Please install the device underneath the eaves of house, or the eaves of equipment room on rooftop.
- 6. Do not install the device on the lightning rod pole. A random lightning could easily cause fatal damage to the device.
- 7. Ensure that the device is within the shielding angle of the lightning rod.
- 8. Lightning I Lightning induction I EMD damage is NOT covered under warranty.

About This Document

This document serves as a brief overview and setup guide for OA series ODUs (Outdoor Units). The OA series is a LTE outdoor unit. In this document, the terms ODU, Outdoor CPE, and Outdoor Unit are used interchangeably.

Version No. : V1.0
Release Time : 2020-12

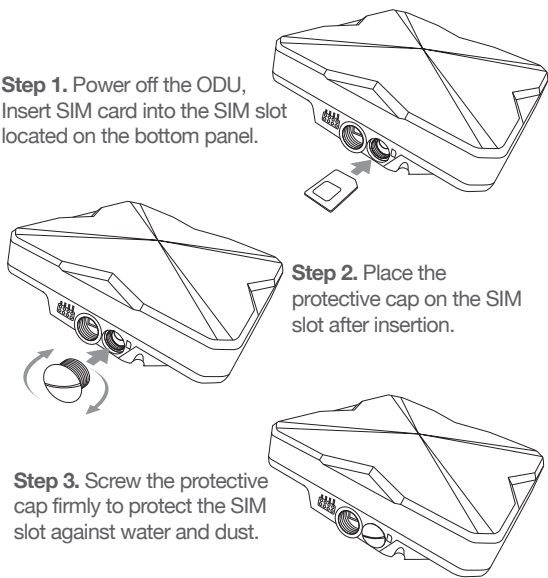
Note: Because of the product version upgrade or other reasons, the content of the document will not be updated on a regular basis. Unless otherwise agreed, this document is used only as a guide, all statements, information and advice in this document do not constitute any express or implied guarantee.

Included Hardware

Ensure that you have everything required to properly set up your device.

ODU Unit	PoE Injector	Cap x 2 Strap x 2 Rubber Pad x2	Ethernet Cable

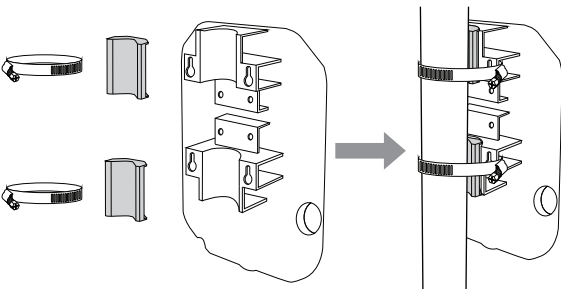
SIM Card Installation



Note: The ODU uses a Standard-size SIM card (Also called, Mini SIM or 2FF SIM card)

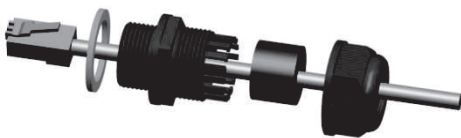
Installing Outdoor Unit

Mounting kit :



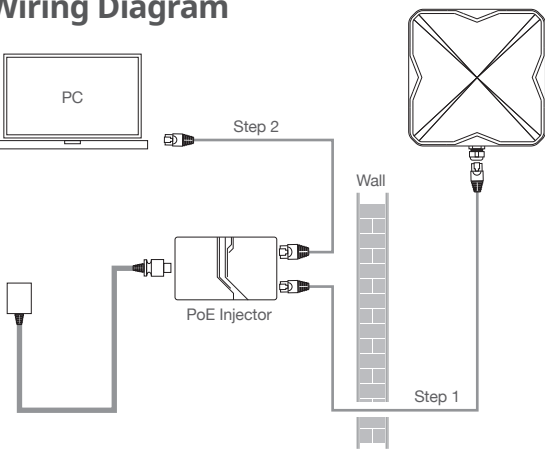
Note: The Mounting Pole's diameter should be 33-57mm.

Header Installation :



Note: LAN Cable's diameter should be 5-10mm.

Wiring Diagram

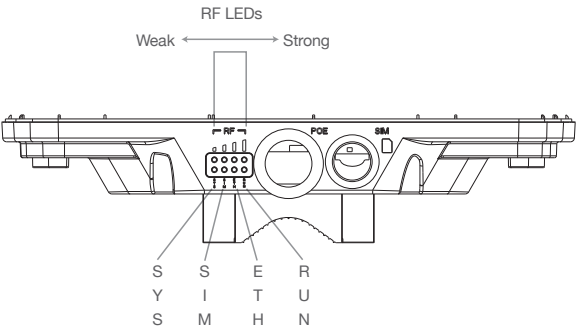


Note: Make sure SIM is inserted correctly before powering up.

- Step 1 Connect the (CAT 5e) Outdoor Ethernet cable between ODU and the "Power + Data out" port on the PoE.
- Step 2 Connect the provided indoor Ethernet cable between the 'Data In' port on the POE and your PC or router.

Adjusting For Optimal Installation

For best signal level and connection quality, the ODU must be aimed directly at the servicing tower. Fine tuning the signal level can be done by making small, incremental adjustment up, down or side to side in order to improve signal, once established. The ODU signal strength level can be observed on the RF Indicator LED lights located on the bottom panel, as shown below. The more LEDS that are lit, the stronger the signal level.



(ODU) LED Behavior

When the ODU is powered on, the LEDs on the bottom panel will have the following behavior.

State	Description	LED Behavior	LED illustration
Signal Strength weak	Signal strength is weak	Only first signal LED steady on, the other three off	
Signal Strength medium	Signal strength is medium	The first two signal LEDs steady on, the last two off	
Signal Strength good	Signal strength is good	The first three signal LEDs steady on, the last one off	
Signal Strength strong	Signal strength is strong	All signal LEDs steady on	
LTE Scanning	The CPE is searching for a frequency channel or is performing network entry	All signal LEDs blinking simultaneously	
LAN Connected	The CPE has a successful connection with a device on the LAN	The ETH LED On	
LAN Disconnected	The CPE does not have an Ethernet connection with the LAN	The ETH LED Off	
SIM card abnormal	The SIM Card in abnormal state	The SIM LED Blinking	
No SIM card	The SIM Card is Undetected	The SIM LED Off	
SIM card normal	The SIM Card is ready	The SIM LED On	
SYS linked	The CPE attached to LTE network	The SYS LED On	
SYS no link	The CPE not attached to LTE network	The SYS LED Off	
CPE Operation	The CPE is operating properly	The RUN LED Blinking	
Firmware Upgrading	The CPE is upgrading the firmware	All signal LEDs scrolling blink one by one	

Use PC to Configure the ODU

After the ODU boots up properly, use the following instructions to fine tune the direction of ODU to optimize signal level and for any advanced personalized configuration. A computer is required to execute the following steps.

Access the Web Management Page

The web-based configuration utility can be used for initial device installation, parameter configuration, and function management through the browser.

Ensure that the device is connected to the computer. Follow these steps to log in to the web management page:

1. Open the browser, enter **192.168.0.1** in the address box, and login Username and Password.

Default IP address: **192.168.0.1**

 USERNAME	← admin
 PASSWORD	← admin
Login	

2. Once logged in, an overview of current signal statistics will be displayed, and you can have a status overview on device activity.

Dashboard	Status	SMG	Settings
Mode Number : #613800138000			
Internet	Status Not Connect Operator Unknown Port - Call ID - E-Call ID - IMPI IMSI IMEI	WLAN Channel 6 Mode IEEE 802.11n/gn SSID Home_Wi-Fi_380-6 Password password	WLAN Enable SSID Mode Password
WLAN Info	Connect Method SS Connect Mode NAT IP Address 10.199.8.192 MAC Address 00:1F:35:8C:4D:54 Subnet Mask 255.255.255.0 DNS Server 10.199.8.191	IP 192.168.1.1 Network 255.255.255.0 MAC Address 00:1F:35:8C:4D:53	IP Network MAC Address
Radio Info	DL Data Rate Current 2 Kbps Max 47 Kbps / Max 0 Bytes Current 1 Kbps Max 0 Kbps / Max 0 Bytes Upl Data Rate 000 000 13km		

Note: You will automatically obtain the IP address and DNS server address.

SINR of 10dB is the bare minimum to provide services. During installation, the user must always try to get the best SINR possible.

Dashboard	Stations	SMS	Settings
Mobile Number: +8613800138000			
Stations WiFi Status IP Address 192.168.3.2 Primary DNS 10.3.5.1 Secondary DNS 202.96.128.86 IPv6 Global Address IPv6 Primary DNS IPv6 Secondary DNS Connection Status Connection Mode LTE Connection Status Auto-Off LODM Status Ready IMEI 354409392150020 IMEI2 ICCID1 ICCID2 ICCID3 IMEI4			

Note: SINR threshold varies per service plan. For more information, contact service support.

■ Basic Troubleshooting

Q1: For No Internet

Ans: Check PoE LED if lit, check if black LAN cable is plug to ODU.

Q2: LED (on the bottom side) does not light up

Ans: Make sure the ODU is correctly connected to PoE injector - Connect RJ-45 port (marked as Power+Data Out) of PoE injector to ODU's RJ-45 port by using Ethernet cable.

Q3: Unable to get access to the "Info Page"

Ans:

- Power supply (ODU to PoE injector and power adapter) is correctly connected.
- Please enable the Laptop PC to automatically obtain IP address.
- IP address is correct? Default IP address is **192.168.0.1**
- Ensure PoE is Powered On.
- Ensure Cabling is Correct.
- Power Cycle PoE.

Note: Refer to Wi-Fi router manual to configure Wi-Fi, this is supplied separately.

Claim FCC Regulations

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.

- Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment

- 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.

FCC RF Exposure Compliance

This equipment complies with radio frequency (RF) exposure limits adopted by the Federal Communications Commission for an uncontrolled environment. This equipment should be installed and operated with minimum distance 24 cm between the radiator & your body.

CE Regulations

Max. RF Power

23 dBm $\pm$ 2 dBm

RF Exposure Information

This device meets the EU requirements and the International Commission on Non-Ionizing Radiation Protection (ICNIRP) on the limitation of exposure of the general public to electromagnetic fields by way of health protection. To comply with the RF exposure requirements, this equipment must be operated in a minimum of 24 cm separation distance to the user.

Simplified DoC

Hereby, Green Packet Berhad declares that the radio equipment type OA series is in compliance with Directive 2014 / 53 / EU. The full text of the EU declaration of conformity is available at the following internet address: <http://www.greenpacket.com/>

Warranty

Hardware warranty is for one year (12 months) from the date of purchase. Customer's unit and his accessories under normal use for warranty period is free from error, improper or inferior workmanship, material, and design.

This Warranty does not cover damage resulting from:

1. Defects and damages due to the equipment being used other than its normal and customary manner.
2. An unauthorized disassembly, repair, alteration or modifications being carried out, misuse, abuse, negligence or accident howsoever caused.
3. Defects or damage arising from improper testing, operation, maintenance, installation, or any alteration or modification.
4. Use other than in accordance with the user manual, rough handling, exposure to extreme thermal or environmental conditions or a rapid change in such conditions, corrosion, oxidation, unauthorized modifications or connections, unauthorized opening or repair, repair by use of unauthorized spare parts, accidents, forces of nature, or other actions beyond the reasonable control of GP.