



# Quick

# Installation Guide

PM4165B

Document Revision 0.1 (draft)

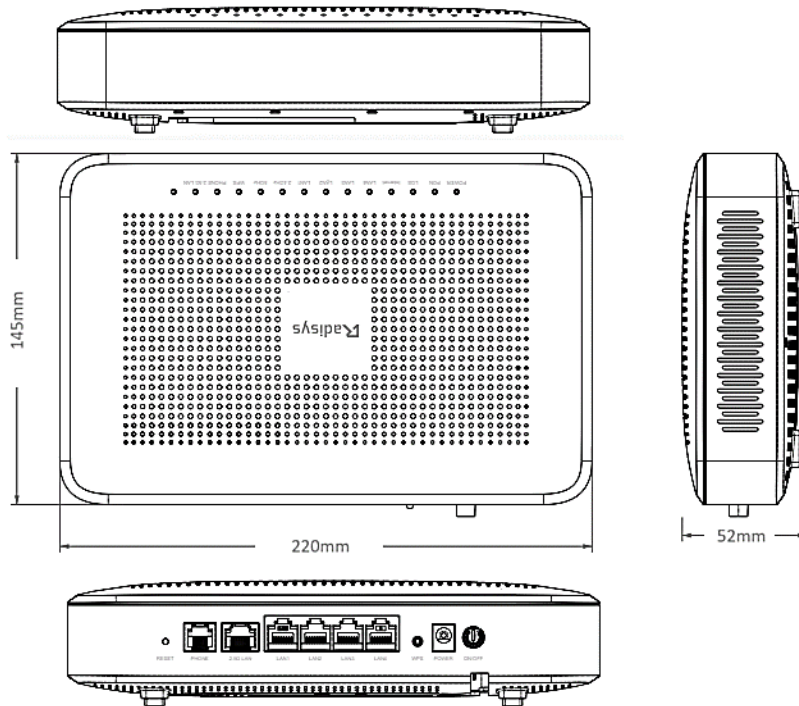
# 1. Introduction

The Radisys PM4165B GPON Home Gateway Unit (HGU) is a Wi-Fi6 dual band GPON ONT complying with the ITU-T G.984. The gateway is best suited for FTTH residential and small office use.

## 2.1 Contents

- PM4165B ONT
- Quick Installation Guide
- Power Adaptor
- RJ45 Ethernet Cable

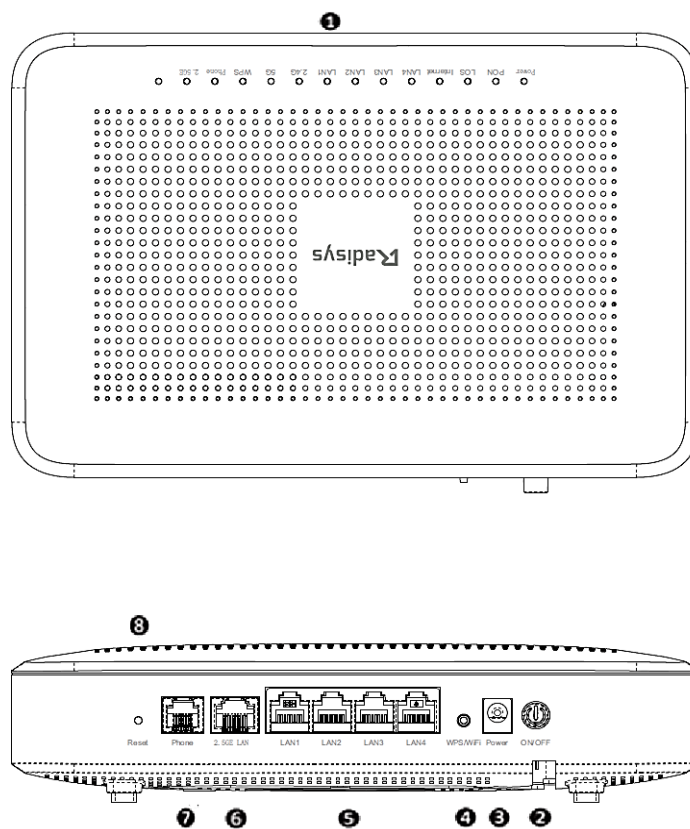
## 2.2 Product Specification



Interfaces	Specification
WAN Uplink	GPON port (SC/APC)
Ethernet	1 10/100/1000/2.5G Base-T port (RJ45)

	4 10/100/1000 Base-T ports (RJ45)
Wi-Fi	2x2/2x2 Wi-Fi 6 (internal antennas)
VoIP	1 FXS ports (RJ11)
Power Adaptor Input	90-240VAC, 50/60Hz
Power Adaptor Output	+12VDC nominal, 3A
Operating Temperature	0 to 40°C (32 to 104°F)
Operating Humidity	10 to 90% (non-condensing)
Dimensions	220 x 145 x 51.56 mm

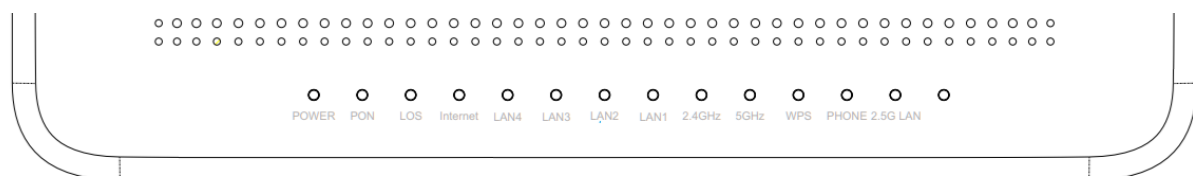
## 2.3 Interfaces



Item	Description
1 LEDs	Status LEDs
2 ON/OFF Button	Turn power ON or OFF
3 POWER	Power port for external Power Adaptor

4 WPS	Press to initiate WPS connection
5 LAN 1-4	1GE Ethernet ports for PC or LAN (RJ45)
6 2.5G LAN	2.5GE Ethernet ports for PC or LAN (RJ45)
7 PHONE	Phone port for telephony (RJ11)
8 RESET	Reboot ONT (quick push) Reset to factory (press and hold for 10 seconds)

## 2.4 LED Status Indicators



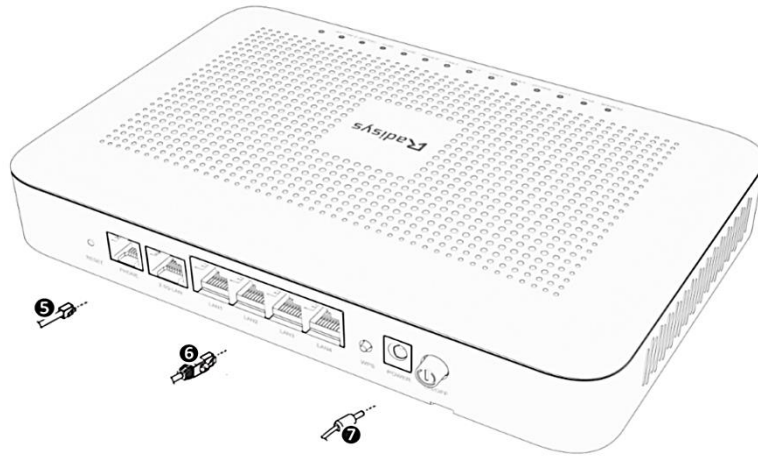
Label	Color	Status	Definition
POWER	Green	OFF	The device is powered OFF.
		ON	The device is powered ON.
PON	Green	OFF	The device has not started the registration process.
		Flashing	The device is registering or upgrading.
		ON	The device has completed the ranging process.
LOS	Red	OFF	The received GPON optical power is normal.
		Flashing	Loss of Signal (LOS) alarm
INTERNET	Green	OFF	The device has no internet connection.
		ON	The device is connected to the internet.
LAN1-4	Green	OFF	Ethernet port is disabled or no service
		Flashing	Data transmitting
		ON	Ethernet port interface is linked
2.5G LAN	Green	OFF	Ethernet port is disabled or no service

		Flashing	Data transmitting
		ON	Ethernet port interface is linked
2.4GHz	Green	OFF	2.4GHz Wi-Fi radio is disabled
		Flashing	2.4GHz Wi-Fi radio is transmitting data traffic
		OFF	2.4GHz Wi-Fi radio is enabled
5GHz	Green	OFF	5GHz Wi-Fi radio is disabled
		Flashing	5GHz Wi-Fi radio is transmitting data traffic
		ON	5GHz Wi-Fi radio is enabled
WPS	Green	OFF	WPS is not active
		Flashing	WPS push-button activated
PHONE	Green	OFF	Telephone port is disabled or un-registered
		Flashing	Telephone line is off hook
		ON	Telephone port registered for service

## 2. Installation

1. Remove ONT from packaging.
2. Lay ONT flat on surface or attach ONT to wall.
3. Remove protection plug (black) from WAN port.
4. Connect fiber optic cable with SC/APC termination to WAN port.
5. Connect telephone cable (5) with RJ11 termination to PHONE.
6. Connect Ethernet cable (6) with RJ45 termination to 10G LAN and LAN 1-4.  
Recommend CAT6 or better Ethernet cable for 2.4GE port.
7. Connect Power Adaptor cable (7) with 2-pin barrel to POWER port.
8. Plug in Power Adaptor into electrical outlet.
9. Push ON/OFF button. Check LED power up sequence.

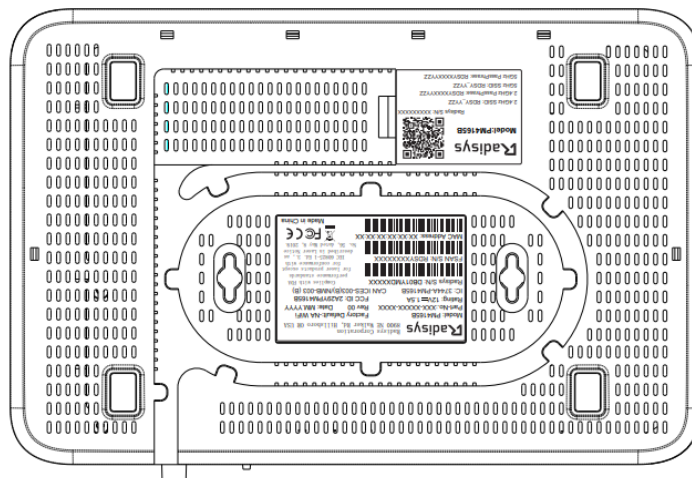
User note: ONT may be upgraded to newer software image prior to provisioning of services. ONT may reset after the initial boot up sequence is complete, or software image is upgraded.



## 2.5 Mounting ONT on a wall

ONT has two mounting holes that can be used for wall mount placement. Please see diagram for screw separation and location.

ONT should be mounted with LEDs facing up and service interfaces facing down to avoid dust and contamination.



### 3. Web Graphical User Interface

You can access the ONT through a web browser using the following steps:

- Connect an Ethernet cable from your computer to any of the LAN 1-4 or 2.5G LAN ports.
- Launch a web browser connect to address 192.168.1.1.
- After response, enter the following:
  1. Username: user
  2. Password: user

After initial login, it is recommended that password be changed.

### 4. Caution

Please follow the instructions below to avoid physical injury:

- This unit is for indoor use only.
- All Ethernet, telephone and power wiring are limited to inside of the building.
- You should not install ONT during lightning storms to avoid electrical shock.
- Never look directly at the fiber port and fiber cable ends when they are powered on.
- DO NOT plug in, turn on or attempt to operate an obviously damaged unit.
- DO NOT use near water.
- DO NOT operate ONT in a location where maximum ambient temp. exceeds 40°C.
- DO NOT place near high temperature source.
- Set up the unit away from direct sunlight or other electrical equipment.
- Open optical connections must use a protective cap under all circumstances to protect against physical damage and dirt.
- Avoid impact stresses when handling connectors.
- Physical damage to optical connections impairs transmission quality.
- Avoid a bend radius in excess of 30 mm for fiber optic links.
- Check the available voltage supply.
- Only connect approved accessories.

- This equipment is not suitable for use in locations where children are to be present.
- DO NOT disassemble the unit.

## 5. Limited Warranty

The product warranty does not cover damage resulting from hardware being installed in areas subject to rain, high humidity, water ingress and dust or debris. Disassembling product or removing enclosure cover from the assembly is a safety hazard and will void warranty. PM4165B may only be repaired by authorized service personnel.



## FCC Warning

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.

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

**Note:** 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.

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 20cm between the radiator & your body.

## IC Warning

This device complies with Industry Canada's licence-exempt RSSs. Operation is subject to the following two conditions:

- (1) This device may not cause interference; and
- (2) This device must accept any interference, including interference that may cause undesired operation of the device.

This equipment complies with ISED radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 20cm between the radiator & your body.

Cet appareil est conforme aux CNR exemptes de licence d'Industrie Canada . Son fonctionnement est soumis aux deux conditions suivantes :

- ( 1 ) Ce dispositif ne peut causer d'interférences ; et
- ( 2 ) Ce dispositif doit accepter toute interférence , y compris les interférences qui peuvent causer un mauvais fonctionnement de l'appareil.

Ce matériel est complété par une exposition de rayonnements ISED pour un environnement naturel. Ce matériel doit être installé et se faire avec une distance minimale de 20cm entre les radiateurs et les autresYour body shop.