Radisys

Quick Installation Guide

IE4101B ONT

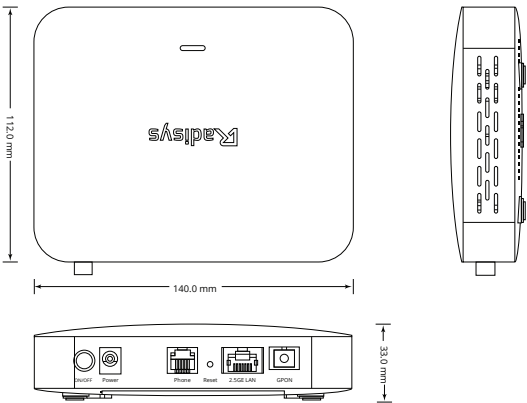Document Revision 0.1 (draft)

1   Introduction

The Radisys IE4101B is a small form-factor GPON ONT fiber terminal capable of both Layer-2 and Home Gateway services complying with ITU-T G.984.3 standard. The ONT enables broadband connectivity and intelligent network edge applications for residential and business services including voice, streaming high-quality video and data-intensive cloud applications.
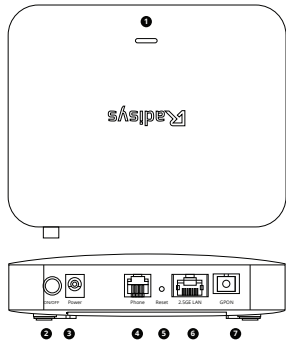
2.1   Contents

-    IE4101B ONT
-    Quick Installation Guide
-    Power Adaptor
-    Ethernet Cable

2.2   Product Specification

Interfaces	Specification
WAN Uplink	GPON port (SC/APC)
Ethernet	One 10/100/2.5G Base-T port (RJ45)
VoIP	One FXS port (RJ11)
Power Adaptor Input	110-240VAC, 50/60Hz
Power Adaptor Output	+12VDC nominal, 1.0A
Operating Temperature	0 to 40°C (32 to 104°F)
Storage Temperature	-40 to 85°C
Operating Humidity	5 to 90% (non-condensing)
Dimensions	140mm X 112mm X 33mm (W x D x H)

2.3   Interfaces

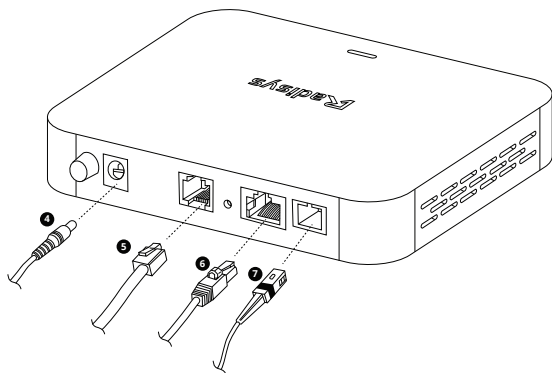| Item	Description
1 LED	Status LED
2 ON/OFF	Turn power ON or OFF
3 POWER	Power port for external Power Adaptor
4 PHONE	Phone port for Telephony (RJ11)
5 RESET	Reboot ONT (quick push) Reset to factory (press and hold for 10 seconds)
6 2.5GE LAN	2.5GE Ethernet ports for PC or LAN (RJ45)
7 GPON	Optical cable termination port

2.4   LED Status Indicators

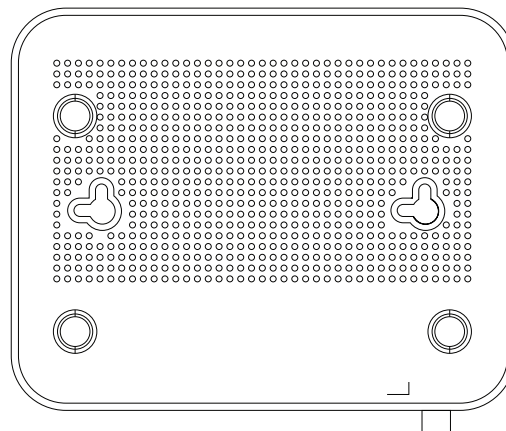| Definition	Color	Status	Duration
Hardware de-energized/no power		OFF	As long as the unit is in powered OFF state.
Hardware initial Boot (power up) - Unit energized/under power Loss of optical signal	RED	ON	As long as the condition persists.
System Linux and SW Boot (power up)	AMBER	SLOW BLINK	1 Sec ON/1 Sec OFF
PON Link initialized but operationally not up	GREEN	FAST BLINK	0.5 Sec ON/0.5 Sec OFF
Device is operationally up	GREEN	ON	As long as the device is up.
Factory reset	AMBER	FAST BLINK	0.5 Sec ON/0.5 Sec OFF for 2 seconds, then power off.
WAN link down/IP address assignment failed/ARP resolution failure	RED	FAST BLINK	0.5 Sec ON/0.5 Sec OFF
Active alarm indication on the ONT Ex: LAN-LOS	RED	SLOW BLINK	1 Sec ON/1 Sec OFF
Software upgrade failure	RED	VERY SLOW BLINK	2 Sec ON/1 Sec OFF
OFF Hook/SIP registration status OK/Active	GREEN	VERY SLOW BLINK	2 Sec ON/1 Sec OFF

3.1   Installation

1.   Remove ONT from packaging.

2.   Lay ONT flat on surface.

3.   Remove protection plug (black) from WAN port.

4.   Connect fiber optic cable (7) with SC/APC termination to WAN port.

5.   Connect Ethernet cable (6) with RJ45 termination to 2.5GE LAN. Recommend CAT6 or better Ethernet cable for 2.5GE port.

6.   Connect telephone cable (5) with RJ11 termination to PHONE.

7.   Connect Power Adaptor cable (4) with 2-pin barrel to POWER port.

8.   Plug in Power Adaptor into electrical outlet.

9.   Push the 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.

3.2   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.

3.3 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 2.5GE LAN port.
- Launch a web browser and 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 Troubleshooting

The LED on the top panel is OFF after pressing the Power switch.

- Verify that the power adapter is connected correctly to the device.
- Be sure to use the supplied power adapter with the device.

The LED on the top panel should be flashing green after the device is powered ON.

- The GPON link is not established.
- The ONT is not registered.

The LED on the top panel is constantly flashing amber after the device is powered ON.

- System boot-up failure.
- Please contact the service provider if the LED status does not change.

The LED on the top panel is flashing constant red after the device is powered ON.

- The optical fiber cable is broken or damaged.
- The optical fiber cable is unplugged or not connected to ONT GPON device correctly.
- Self-test failure.
- Please contact the service provider if the LED status does not change.

5   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 the inside of the building.
- You should not install ONT during lighting 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 more than 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.

6   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. IE4101B may only be repaired by authorized service personnel.

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