Radisys

Quick Installation Guide
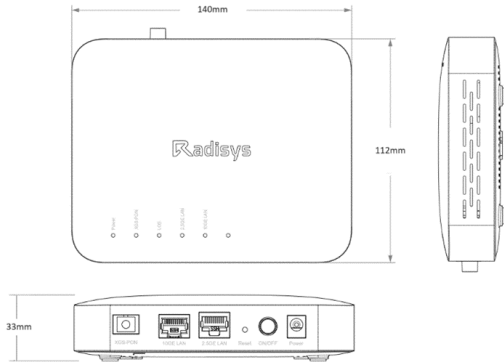
ES6002B ONT

Document Revision 1.0

1   Introduction

The Radisys ES6002B is a small form factor XGS-PON ONT fiber terminal complying with the ITU-T G.9807.1 standard. The ONT enables broadband connectivity to the subscriber for residential and business services.
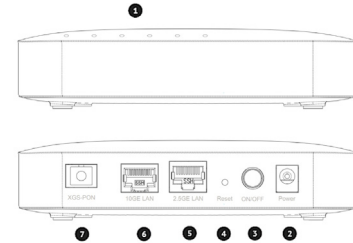
2.1   Contents

- ES6002B ONT
- Quick Installation Guide
- Power Adaptor
- Ethernet cable

2.2   Product Specifications

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

Interfaces	Specification
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	10 to 95% (non-condensing)
Dimensions	140 mm x 112 mm x 33 mm (W x D x H)

2.3   Interfaces

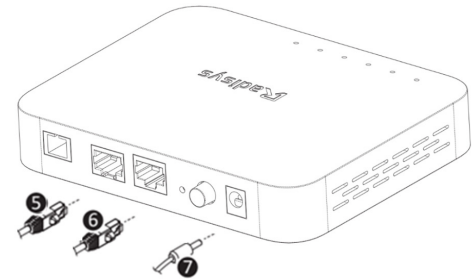| Item	Description
1 LEDs	Status LEDs
2 POWER	Power port for external Power Adaptor
3 ON/OFF Button	Turn power ON or OFF
4 RESET	Reboot ONT (quick push)
	Reset to factory (press and hold for 10 seconds)
5 2.5GE LAN	2.5GE Ethernet ports for PC or LAN (RJ45)
6 10GE LAN	10GE Ethernet ports for PC or LAN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

2.4   LED Status Indicators

Label	Color	Status	Definition
POWER	Green	ON	Normal operation
		OFF	Power is removed
XGS-PON	Green	ON	PON is fully operational
		OFF	Not ready for ranging or provisioning
		FAST FLASH	Device in ranging and activation process
		SLOW FLASH	Device software updating
LOS	Red	OFF	No LOS alarm
		ON	Loss of Signal (LOS) alarm
2.5GE LAN	Green	ON	Ethernet link is up
		ACTIVITY FLASH	Data is being transmitted
		OFF	Ethernet port is disabled or no service
10GE LAN	Green	ON	Ethernet link is up
		ACTIVITY FLASH	Data is being transmitted
		OFF	Ethernet port is disabled or no service

3.1   Installation

1.   Remove ONT from packaging.

2.   Place ONT flat on surface.

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

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

5.   Connect Ethernet cable (5) (6) with RJ45 termination to 10GE LAN or 2.5GE LAN. Recommend CAT6 or better Ethernet cable for 10GE port.

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

7.   Plug in Power Adaptor into electrical outlet.

8.   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 initial boot up sequence is complete or software image is upgraded.

4 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.

5 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 10GE or 2.5GE ports.

– 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.

6 Troubleshooting

The Power LED on the front 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 XGS-PON LED on the front panel is OFF or green flashing after the device is powered ON.

– The XGS-PON link is not established.

– The ONT is not registered.

The LAN LED on the front panel is off after the device is powered ON.

– The corresponding LAN is not established.

– The Ethernet cable is not connected correctly.

– The network device connected to the LAN is not powered ON.

The LOS LED on the front panel is flashing red after the device is powered ON.

– The optical fiber cable is broken or damaged.

– The optical fiber cable is not connected to ONT XGS-PON device correctly.

- Please contact the service provider if the LED is flashing red.

7   Caution

Pleae 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 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 operate ONT in a location where maximum ambient temperature exceed 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.

7   Caution (cont'd)

– Avoid a bend radius in excess of 30 mm for fiber optic links.

– Check the available voltage supply.

– Only connect approved accessories.

– 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.

8   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. ES6002B may only be repaired by authorized service personnel.

This page is intentionally left blank.

Radisys