Radisys

Quick Installation Guide
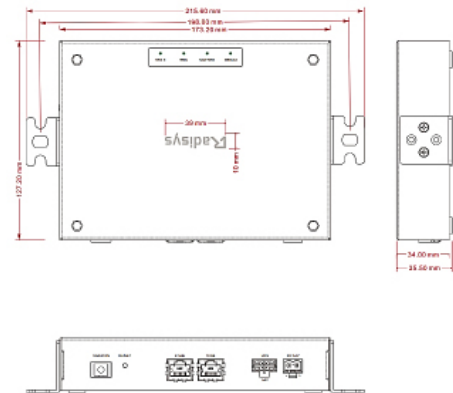
ES6002HT ONT

Document Revision 0.1

1   Introduction

The Radisys ES6002HT is designed for outdoor smart-city, enterprise, stadium and hospitality applications that require secure connectivity and the ability to deliver PoE++ over Ethernet to IP phones, wireless Access Points, 5G Small Cells, and PTZ cameras. The ONT has a sealed metal housing that is plenum-rated, able to deliver broadband connectivity for indoor and outdoor applications using the 10G XGS-PON standard.

2.1   Contents
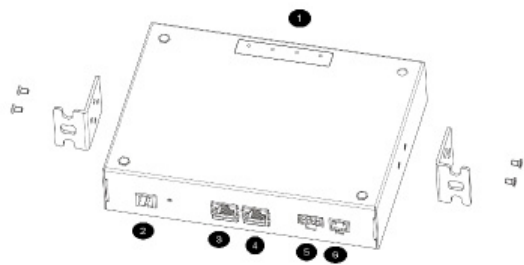
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-    Ethernet Cable

-    Mounting brackets (2)

-    DIN rail bracket

-    Bracket screws (4)

-    2-pin power connector

2.2   Product Specification

Interfaces	Specification
WAN Uplink	XGS-PON port (SC/APC)
Ethernet 1	1 100/1000/2.5G Base-T port (RJ45)
Ethernet 2	1 100/1000/2.5G/5G/10G Base-T port (RJ45)
Power Adaptor Input	110-240VAC, 50/60Hz
Power Adaptor Output	+54VDC nominal, 1.5A
Operating Temperature	-40 to 85°C (-40 to 185°F)
Storage Temperature	-40 to 85°C
Operating Humidity	10to 95% (non-condensing)
Dimensions	173mm X 127mm X 34mm

2.3 Interfaces

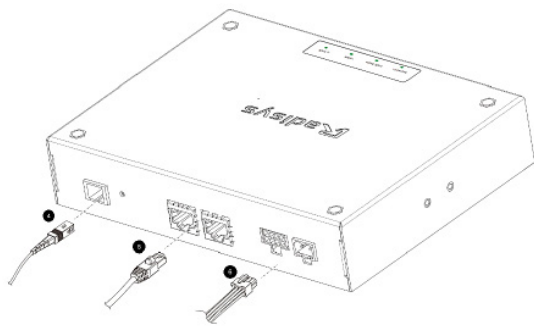| Item	Description
1 LED	Status LEDs
2 XGS-PON	Optical cable termination port
3 RESET	Reboot ONT (quick push) Reset to factory (press and hold for 10 seconds)
4 2.5GE LAN	2.5GE Ethernet ports for PC or LAN (RJ45)
5 10GE LAN	10GE Ethernet ports for PC or LAN (RJ45)
6 UPS	8 pin Molex connector for battery backup
7 DC 54V	Power port for external power adaptor

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
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

2.5   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 (4) with SC/APC termination to WAN port.

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

6.   Connect Power Adaptor cable (6) to POWER port.

7.   Plug in Power Adaptor into electrical outlet.

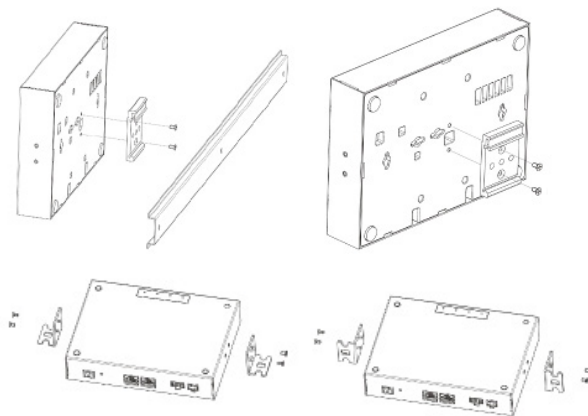8.   Push the ON/OFF button. Check LED power up sequence.

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.

3.1   Mounting ONT on a wall

ES6002HT has mounting options for rackmount, wall-mount, or DIN rail mount applications. The recommended screw size is imperial #6 1" or metric M4 25mm flat head screw. 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.

3.2   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 10GE LAN port.

-       Launch a web browser and connect to address 192.168.1.1.

-       After response, enter the following:

        1..1. Username : user

        1..2. Password: user

After initial login, it is recommended the password to be changed.

4   Troubleshooting

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

-       Verity 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.

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 dam aged unit.

- DO NOT use near water.

- DO NOT operate ONT in a location where maximum ambient temp. exceeds 85°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. ES6002HT may only be repaired by authorized service personnel.

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