



Quick Installation Guide

ES4102G

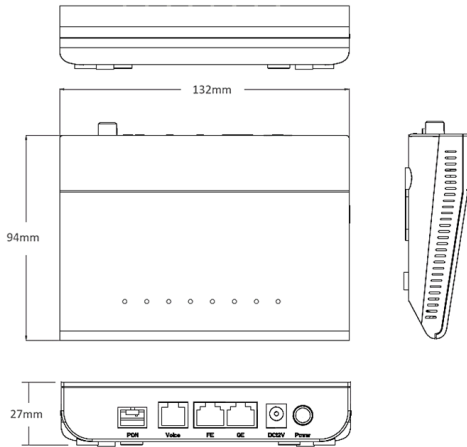
Document Revision 1.0

1 Introduction

The Radisys ES4102G is a small form factor service delivery terminal that delivers broadband connectivity to the subscriber using the GPON standard. This high-performance terminal integrates a GPON optical WAN interface that enables residential and symmetrical business network traffic at speeds up to 1Gbps and includes support of one voice port.

2.1 Contents

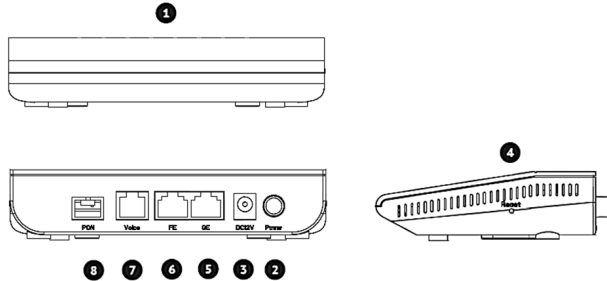
- ES4102G ONT
- Quick Installation Guide
- Ethernet Cable
- Power Adaptor



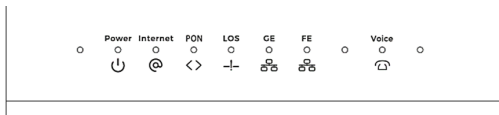
2.2 Product Specifications

Interfaces	Specification
WAN Uplink	GPON port (SC/APC)
Ethernet	One 10/100/1000/1G Base-T port (RJ45)
	One 10/100 Base-T ports (RJ45)
VoIP	One FXS ports (RJ11)
Power Adaptor Input	90-240VAC, 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	132mm X 94mm X 27mm

2.3 Interfaces



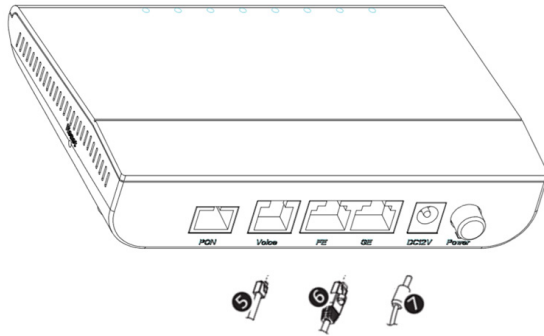
Item	Description
1 LEDs	Status LEDs
2 ON/OFF	Turn power ON or OFF
3 POWER	Power port for external Power Adaptor
4 RESET	Reboot ONT (quick push) Reset to factory (press and hold for 10 seconds)
5 1GE LAN	1GE Ethernet ports for PC or LAN (RJ45)
6 1FE LAN	1FE Ethernet ports for PC or LAN (RJ45)
7 VOICE	Phone port for telephony (RJ11)
8 PON	GPON WAN interface (SC/APC)



2.4 LED Status Indicators

Label	Color	Status	Definition		
POWER	GREEN	ON	Normal operation		
		FAST BLINK	Reset to factory defaults; not configured for service		
		SLOW BLINK	Initializing; start of boot process		
		OFF	Power is removed		
		INTERNET	GREEN	ON	Internet service available
		OFF	Internet not available, IP or DNS failure		
PON	GREEN	ON	PON is fully operational		
		OFF	Not ready for ranging or provisioning		
		SLOW FLASH	Ranging is in process		
LOS	RED	OFF	No LOS alarm		
		ON	Loss of Signal (LOS) alarm		
GE	GREEN	ON	Ethernet link is up		
		ACTIVITY FLASH	Data is being transmitted		
		OFF	Ethernet port is disabled or no service		
		FE	GREEN	ON	Ethernet link is up
		ACTIVITY FLASH	Data is being transmitted		
		OFF	Ethernet port is disabled or no service		
		VOICE	GREEN	ON	Telephone port registered for service
		ACTIVITY FLASH	Telephone line is off hook		
		OFF	Telephone port is disabled or un-registered		

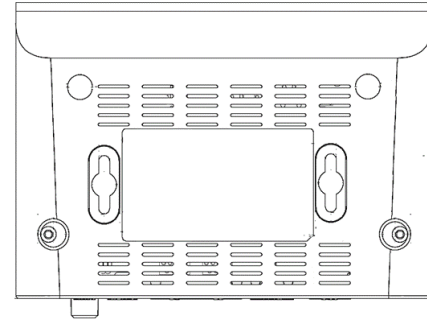
3.1 Installation



1. Remove ONT from packaging.
2. Lay ONT flat on surface.
3. Remove protection plug (black) from WAN port.
4. Connect fiber optic cable with SC/APC termination to WAN port.
5. Connect Telephone cable (5) with RJ11 termination to Voice port.
6. Connect Ethernet cable (6) with RJ45 termination to 1GE LAN or 1FE LAN. Recommend CAT5e or better Ethernet cable.
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.

3.2 Mounting ONT on a wall



ONT has two mounting holes that can be used for wall mount placement. 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.

4 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 either the LAN 1GE or 1FE 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.

4 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. Assurez-vous d'utiliser l'adaptateur secteur fourni avec l'appareil.

The PON LED on the front panel is OFF or green flashing after the device is powered ON. French translation: Utilisez l'adaptateur secteur fourni avec l'appareil.

- The GPON 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 GPON device correctly.
- Please contact the service provider if the LED is flashing red.

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 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.

- The socket-outlet shall be installed near the equipment and shall be easily accessible. La prise de courant doit être installée près de l'équipement et être facilement accessible.

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. ES4102G may only be repaired by authorized service personnel.

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