

1. Package Contents

Thank you for choosing PLANET GPON ONT. Before installing the range extender, please verify the contents inside the package box.

GPN-100	User's manual	Power adapter (12V, 0.5A)
		

 **Note**
If there is any item missing or damaged, please contact the seller immediately.

2. Physical Introduction

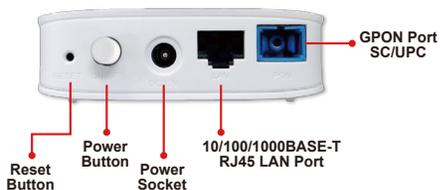
Top View and LEDs



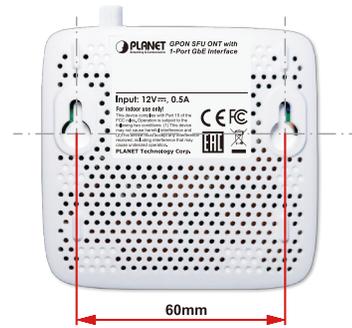
LED Indicators

LED	Color	Function	
PWR	Blue	Lights	Indicates the ONT has power.
		OFF	The ONT doesn't receive power.
LOS	Red	Blinks	Optical Power is too low.
		OFF	Optical Power is normal.
PON	Blue	Blinks	Indicates the port is not getting normal Optical Signal.
		Lights	Indicates the port is getting normal Optical Signal.
LNK/ACT	Blue	OFF	No link
		Blinks	Indicates the link through that port is actively sending and receiving data.
		Lights	Indicates the link through that port is successfully established.

Rear View



Bottom View



3. Hardware Installation

Safety Requirements

- Never look directly into the ends of fiber or PON modules. The emitted light could cause damage to the eye.
- Make sure the GPON service is enabled.
- Ensure that the optical fiber is long enough to achieve the desired installation place.
- Put the ONT on a sturdy table.
- Don't open the device when the ONT is operating.
- Contact your local agent for permission if you want to remove the chassis.
- Allow about 10cm of clearance around the ONT chassis for heat dissipation.

Step 1: Connecting the RJ45 network cable.

- a. Plug in the RJ45 cable to 10/100/1000 GE port.
- b. Plug in the other side to your host or devices.

Step 2: Connecting the fiber cable.

- a. Remove the protective cap of the optical fiber.
- b. Remove the protective cap of the ONT optical interface (PON interface). Insert the fiber into the PON interface.



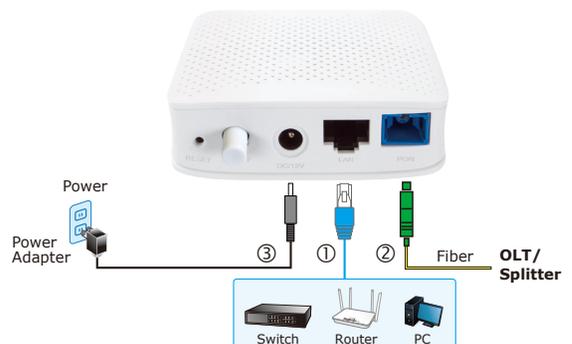
Warning
Don't connect the ONT/HGU directly to GPON SFP module (**GPL-GSFP-C+** or **GPL-GSFP-C++**). Doing so will damage the ONT/HGU optics. Use a PON splitter to add attenuation as needed.



1. Keep the optical connector and the optical fiber clean.
2. Make sure the bending diameter of the fiber is more than 6cm. Otherwise, the optical signal loss may be increased.
3. Cover a protective cap to guard against dust and water when the fiber is not used

Step 3: Connecting Power Adapter.

- a. Connect the power adapter to the power socket on the ONT.
- b. Insert the other end into a power outlet.



Verifying the Installation

- After powering on the ONT, the Power LED will be lit and ONT system will start to check the Optical signal.
- If the ONT system receives the optical signal, the **PON LED** will be lit and ONT system will start to register.
- If OLT and ONT register successfully, the Link LED will be lit which means that the connection is establishing.



Note

PLANET GPON ONT was designed with PLANET OLT GPL-8000 system. If your connection device is a third-party OLT system, the PON connection might be unstable and malfunctioned, due to the configurations of ONT which must depend on the OLT settings



Note

If the ONT can't work properly with OLT of other brands, contact the third-party OLT vendor for technical support.

4. Specifications

Product	GPN-100	
Hardware Specifications		
Transmission Speed	Downstream: 2.5 Gbps Upstream: 1.25 Gbps	
Port	PON Port	1 x PON Port, SC/UPC
	Ethernet Port	1 x RJ45 (10/100/1000BASE-T)
Fiber Maximum Distance	20km	
Optic Wavelength	TX: 1310nm RX: 1490nm	
Optical Receive Sensitivity	-28 dBm	
Optical TX Power	0.5~5 dBm	
Reset Button	< 5 sec: System reboot > 20 sec: Factory default	
LED Indicators	1 Power LED 1 PON LED 1 LAN Link LED 1 LOS LED	
Environment Specifications		
Dimensions (W x D x H)	80 x 75 x 24 mm	
Weight	100g	
Power Input	12V DC, 0.5A	
Temperature	Operating temperature: 0 ~ 50 degrees C Storage temperature: -40 ~ 85 degrees C	
Humidity	Operating Humidity: 10 ~ 85% non-condensing Storage Humidity: 5 ~ 95% non-condensing	
Standards Conformance		
Standards Compliance	IEEE 802.3 10BASE-T IEEE 802.3u 100BASE-TX IEEE 802.3ab 1000BASE-T IEEE 802.3x flow control and back pressure ITU-T G.984/G.988 ITU-T Y.1291	
Safety	CE	

GPON SFU ONT with 1-Port GbE Interface

▶ GPN-100



Customer Support

Thank you for purchasing PLANET product. You can browse our online FAQ resource on PLANET website first to check if it could solve your issue. If you need more support information, please contact PLANET support team

PLANET online FAQs:

<https://www.planet.com.tw/en/support/faq>

Support team mail address:

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Energy Saving Note of the Device

This power required device does not support Standby mode operation. For energy savings, please remove the DC plug or slide the hardware-based Power Switch to the OFF position to disconnect the device from the power circuit. Without removing the DC plug from or switching off the device, the device will still consume power from the power source. In view of Saving the Energy and reducing the unnecessary power consumption, it is strongly suggested to power off or to remove the DC plug from the device if this device is not intended to be active.

