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Planet GPL-8000

Planet GPL-8000 8-Port GPON Optical Line Terminal User Manual

1. Introduction

This manual provides comprehensive instructions for the installation, operation, and maintenance of the Planet GPL-8000 8-Port GPON Optical Line Terminal (OLT). The GPL-8000 is designed to facilitate high-speed fiber optic broadband network deployments, offering eight GPON ports, four Gigabit TP/SFP combo ports, four Gigabit SFP ports, four 10G SFP+ ports, and a dedicated management port. It complies with ITU-T G.984/G.988 standards, ensuring compatibility and reliable performance for connecting up to 1024 ONU and HGU devices.

2. SAFETY INFORMATION

Observe the following safety precautions to prevent damage to the device and ensure user safety:

- Ensure proper grounding of the device.
- Do not expose the device to water or excessive humidity.
- Operate the device within the specified temperature and humidity ranges.
- · Disconnect power before cleaning or servicing.
- Avoid looking directly into optical ports when active, as laser radiation can cause eye damage.
- Only use the power adapter provided or specified by the manufacturer.

3. PACKAGE CONTENTS

Verify that all items are present in the package:

- 1 x Planet 8-Port GPON Port Optical Line Terminal (GPL-8000)
- Power Cord (may vary by region)
- · Rack-mounting Kit
- Quick Installation Guide

4. PRODUCT OVERVIEW

The Planet GPL-8000 is a robust Optical Line Terminal designed for high-density GPON deployments. Below is an illustration of the device's front panel, highlighting its various ports and indicators.



Figure 1: Front Panel of the Planet GPL-8000 OLT. This image displays the front of the GPL-8000 unit, featuring a series of ports and LED indicators. From left to right, it includes power and system status LEDs, a console port, management (MGMT) ports, Gigabit TP/SFP combo ports (G1-G8), 10G SFP+ ports (TG1-TG4), and GPON ports (P1-P8). The Planet logo and model number GPL-8000 are visible on the right side.

4.1 Front Panel Components

- LED Indicators:
 - PWR1/PWR2: Power status indicators.
 - SYS: System status indicator.
 - ALM: Alarm indicator.
 - LNK/ACT (1G/10G): Link/Activity indicators for Gigabit and 10G ports.
 - PON (P1-P8): GPON port status indicators.
- Console Port: For local management access (RJ45).
- MGMT Port: Dedicated Ethernet port for out-of-band management.
- **Gigabit TP/SFP Combo Ports (G1-G8):** Four pairs of ports, each offering a Gigabit Ethernet (RJ45) and a Gigabit SFP slot. Only one interface in each combo pair can be active at a time.
- 10G SFP+ Ports (TG1-TG4): Four 10-Gigabit SFP+ slots for high-speed uplinks.
- GPON Ports (P1-P8): Eight GPON (Gigabit Passive Optical Network) ports for connecting to ONUs/HGUs.

5. SETUP AND INSTALLATION

5.1 Physical Installation

- 1. **Rack Mounting:** Secure the GPL-8000 into a standard 19-inch equipment rack using the provided rack-mounting kit. Ensure adequate ventilation around the unit.
- Power Connection: Connect the power cord to the device's power input and then to a grounded AC power outlet. Verify that the PWR LED illuminates.
- 3. **Grounding:** Connect a grounding wire from the device's grounding screw to a proper earth ground.

5.2 Initial Network Connection

- Management Port: Connect an Ethernet cable from your management workstation to the dedicated MGMT port on the GPL-8000.
- 2. Console Port (Optional): For direct command-line interface (CLI) access, connect a console cable from your

workstation to the Console port. Configure your terminal emulator with settings: 9600 baud rate, 8 data bits, no parity, 1 stop bit (9600, N, 8, 1).

- 3. **Uplink Connections:** Connect your network's uplink cables to the 10G SFP+ ports (TG1-TG4) or the Gigabit TP/SFP Combo ports (G1-G8) as required.
- 4. **GPON Connections:** Insert appropriate GPON optical modules into the GPON ports (P1-P8) and connect the fiber optic cables to your GPON network.

6. OPERATING INSTRUCTIONS

6.1 Accessing the Device

The GPL-8000 can be managed via a web-based GUI, CLI (Console/Telnet/SSH), or SNMP.

- Web GUI: Open a web browser and enter the device's IP address (default IP address can be found in the Quick Installation Guide or by using the console).
- **CLI**: Use a terminal emulator connected to the console port or establish a Telnet/SSH session to the device's IP address.

6.2 Basic Configuration

Refer to the detailed software user manual for advanced configuration. Key initial steps typically include:

- · Changing the default administrator password.
- · Configuring the management IP address.
- Setting up GPON service profiles and registering ONUs/HGUs.
- Configuring VLANs and QoS settings.

7. MAINTENANCE

- Cleaning: Periodically clean the device's exterior with a soft, dry cloth. Ensure ventilation openings are free from dust and obstructions. Do not use liquid or aerosol cleaners.
- **Firmware Updates:** Regularly check the Planet website for firmware updates to ensure optimal performance and security. Follow the provided instructions for firmware upgrade procedures.
- **Environmental Monitoring:** Ensure the operating environment remains within specified temperature and humidity limits to prevent hardware degradation.

8. TROUBLESHOOTING

This section addresses common issues you might encounter with the GPL-8000.

• No Power:

- Verify the power cord is securely connected to both the device and the power outlet.
- · Check the power outlet for functionality.
- Ensure the PWR LED is illuminated.

• No Link on a Port:

- Check the cable connection for both ends.
- Ensure the correct cable type is used (e.g., fiber for SFP/GPON, Ethernet for TP).

- Verify the connected device is powered on and functioning correctly.
- For SFP/SFP+ ports, ensure the correct transceiver module is inserted.
- For GPON ports, check fiber integrity and ONU registration status.

· Cannot Access Web GUI/CLI:

- Verify your management workstation's IP address is in the same subnet as the GPL-8000's management IP.
- Check physical connection to the MGMT or Console port.
- Ensure no firewall is blocking access.
- Reset the device to factory defaults (refer to the full user manual for procedure) if the IP address is unknown or forgotten.

9. SPECIFICATIONS

Feature	Description
Model Number	GPL-8000
Brand	Planet
Interface Type	SFP, SFP+, RJ45
Number of Ports	8 GPON, 4 Gigabit TP/SFP Combo, 4 10G SFP+, 1 Management
Product Dimensions	17.32 x 11.97 x 1.73 inches
Item Weight	12.1 pounds
Case Material	Plastic
Included Components	1 x Planet 8-Port GPON Port Optical Line Terminal with 4-Port Gigabit TP/SFP Combo Ports

10. WARRANTY AND TECHNICAL SUPPORT

For detailed warranty information, please refer to the warranty card included with your product or visit the official Planet Technology Corporation website. For technical assistance, product documentation, or to report issues, please contact Planet's customer support through their official channels. Keep your product model number (GPL-8000) and serial number ready when seeking support.

Manufacturer: PLANET Technology Corporation.

Related Documents - GPL-8000

	PLANET IFGS-1022TF Industrial Ethernet Switch User Manual User manual for the PLANET IFGS-1022TF Industrial 8-Port 10/100TX + 2-Port Gigabit TP/SFP Combo Ethernet Switch. Details package contents, product specifications, hardware features including front and upper panel descriptions, LED indicators, power wiring, fault alarm wiring, installation procedures (DIN-rail, wall-mount, grounding), and customer support information. Includes FCC, CE, and WEEE compliance warnings.
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3. Part 15190510017 893-364 Part - 4-One 151905100017 893-364 Part - 2-Part 15190510017 893-364 Part - 2-Part 15190510017 Part 261905 Part 3 1-Part 15190510017 Part 261905 Part 3 1-Part 15190510017 893-3649 Part 3 1-Part 15190510017 893-3649 Part 3 1-Part 15190510017 893-364 Pa	PLANET GSD-1022UP Gigabit PoE Switch User Manual Comprehensive user manual for the PLANET GSD-1022UP, an unmanaged Gigabit PoE switch featuring 2-Port 802.3bt PoE++, 4-Port 802.3at PoE+, and 2-Port 1000X SFP. Includes installation, specifications, and LED indicators.





PLANET Product Guide: Comprehensive Network Transmission Infrastructure Innovations

Explore PLANET's extensive product guide featuring innovative IP-based networking solutions, including switches, industrial Ethernet, AloT, PoE, media converters, wireless LAN, IP surveillance, and more for diverse business and industrial applications.

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8-Port GPON OLT with 4-Port Gigabit TP/SFP Combo + 4-Port 100/1000X SFP + 4-Port 10G SFP+ GPL-8000

Quick Installation Guide

[pdf] User Manual Installation Guide Guide

GPL 8000 Quick Installation Guide PLANET Technology Switch config username admin password planet2020 User s Manual 2020 Contents are subject to revision without prior notice is a EMQ v1 0 planet tw storage products 49355 5 Starting Web Management Table of 10 The GPON OLT provides built in browser interface user manual for more 2 Saving Configurationvia the To save all applied changes and set current configurationas startup configuration configurationfile will be loaded automatically across system reboot 8 11 35 57 AM

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GPON HGU with 4 Port GbE 1200Mbps 802 11AC Wireless and 2 FXS 1 x USB High Speed 11ac PLANET GPN 400ACV Broadband Router supports IEEE 11a b g n ac standard dual band Gigabit LAN WAN 0 triotronik content sunaddons flextor upload 89 27489

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