

BAUDCOM BD-OLT-1000GZ

BAUDCOM GPON Optical Line Terminal Router (BD-OLT-1000GZ) User Manual

1. INTRODUCTION

This manual provides detailed instructions for the installation, operation, and maintenance of the BAUDCOM BD-OLT-1000GZ GPON Optical Line Terminal (OLT) Router. This device is designed for business use, offering robust Ethernet connectivity and high-speed data transfer capabilities for up to 128 users.

2. PRODUCT OVERVIEW

2.1 Key Features

- **Connectivity Technology:** Gigabit Ethernet with 1 RJ45 port for stable and fast data transfer.
- **Max Upstream Data Transfer Rate:** 1000 megabits per second for smooth and efficient data transmission.
- **Controller Type:** Web Management and EMS (Element Management System) for easy and centralized control.
- **Model Number:** BD-OLT-1000GZ, specifically designed for GPON Optical Line Terminal applications.
- **User Capacity:** Supports up to 128 users.
- **Uplink:** 10G uplink capability.

2.2 What's in the Box

- BAUDCOM BD-OLT-1000GZ OLT Unit

2.3 Physical Description

The BD-OLT-1000GZ features a compact design with clearly labeled ports and indicators.



Figure 1: Front View of the OLT Unit. This image shows the front panel of the BAUDCOM BD-OLT-1000GZ OLT. Visible components include LED indicators for System (SYS), PON, and Power (PWR), a Reset button, a PON port, two GE (Gigabit Ethernet) ports, a 10GE SFP+ port, and a Console port.

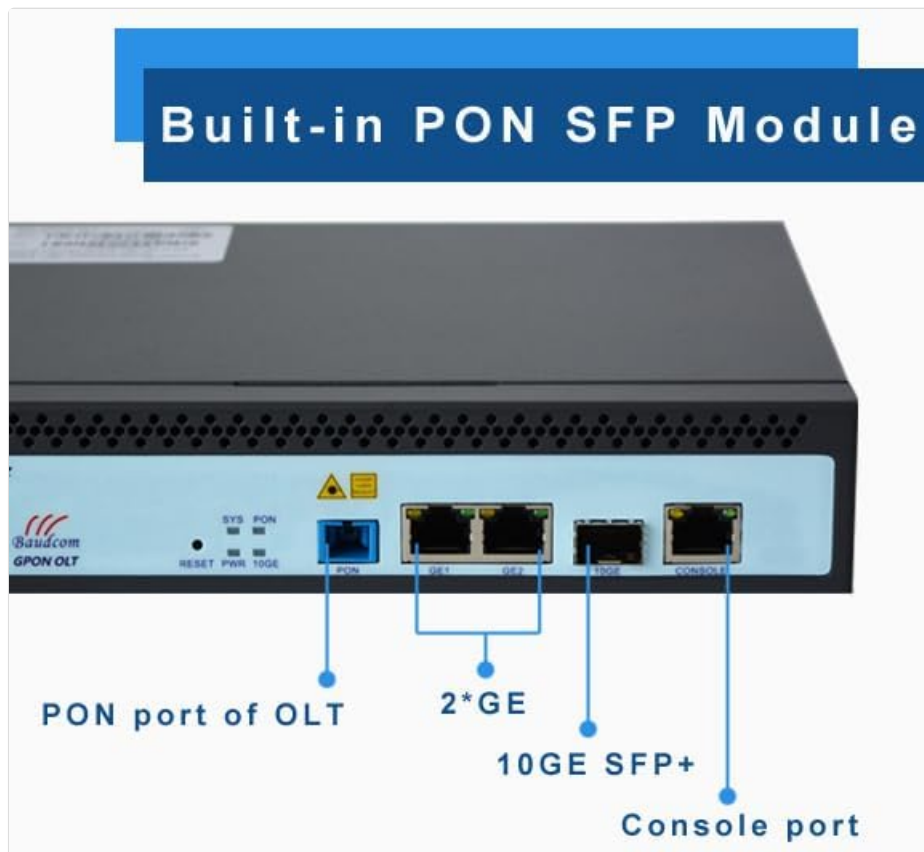


Figure 2: Front Panel Port Identification. This image provides a closer look at the front panel, clearly labeling the PON port, the two GE ports, the 10GE SFP+ port, and the Console port. It also highlights the built-in PON SFP Module.



Figure 3: Rear View of the OLT Unit. The rear panel includes the DC 12V power input, an ON/OFF power switch, and an AC 100-240V~1A power inlet, along with a grounding screw.



Figure 4: Pluggable Power Module. This image emphasizes the flexibility of the power input, allowing for both AC and DC power options.

3. SETUP

3.1 Rack Mounting (Optional)

The OLT unit can be mounted in a standard equipment rack using the provided rack ears.

Bring your ears to the cabinet



Figure 5: OLT Unit with Rack Ears. This image shows the OLT unit alongside its detachable rack mounting ears, ready for installation into a cabinet.

1. Attach the rack ears to the sides of the OLT unit using the screws provided.
2. Secure the OLT unit into the equipment rack using appropriate rack screws.

3.2 Power Connection

1. Ensure the power switch on the rear panel is in the **OFF** position.
2. Connect the appropriate power cable (AC or DC, depending on your setup) to the power inlet on the rear panel.
3. Plug the other end of the power cable into a suitable power source.
4. For grounding, connect a grounding wire to the grounding screw on the rear panel and to a reliable ground source.

3.3 Network Connections

1. **PON Port:** Connect your GPON fiber optic cable to the PON port.
2. **GE Ports (GE1, GE2):** Connect Ethernet cables from your network devices (e.g., switches, routers) to the Gigabit Ethernet ports.
3. **10GE SFP+ Port:** Insert a 10G SFP+ module (if not already built-in) and connect a fiber optic cable

for high-speed uplink.

4. **Console Port:** For initial configuration or direct management, connect a console cable to this port and to a computer.

4. OPERATING INSTRUCTIONS

4.1 Powering On/Off

1. To power on the device, flip the power switch on the rear panel to the **ON** position.
2. To power off the device, flip the power switch on the rear panel to the **OFF** position.

4.2 LED Indicators

- **SYS (System):** Indicates the system status. A steady green light typically means the system is operating normally.
- **PON:** Indicates the status of the GPON link. A steady green light usually means the PON link is established.
- **PWR (Power):** Indicates power status. A steady green light means the device is receiving power.

4.3 Initial Configuration

Initial configuration is typically performed via the Console port or through Web Management. Refer to the detailed software configuration guide for specific steps on setting up IP addresses, VLANs, and GPON services.

5. WEB MANAGEMENT AND EMS

The BAUDCOM BD-OLT-1000GZ supports both Web Management and Element Management System (EMS) for comprehensive control and monitoring.

- **Web Management:** Access the device's web-based interface by entering its IP address into a web browser. This provides a graphical user interface for configuration and monitoring.
- **EMS:** For larger deployments and centralized management, the OLT can be integrated into an Element Management System. Consult your network administrator or BAUDCOM support for EMS integration details.

6. SPECIFICATIONS

Feature	Specification
Brand	BAUDCOM
Model Name	OLT-1000GZ
Connectivity Technology	Ethernet
Number of Ports	1 (GPON PON port) + 2 (GE) + 1 (10GE SFP+) + 1 (Console)
Data Transfer Rate	1000 Megabits Per Second (GE ports)

Feature	Specification
Maximum Upstream Data Transfer Rate	1000 Megabits Per Second
LAN Port Bandwidth	1000 Mbps
Controller Type	Web Management, EMS (Element Management System)
Recommended Uses	Business
Special Feature	LED Indicator
Operating System	RouterOS (as per product specifications, though typically OLTs run proprietary OS)
Power Input	AC 100-240V~1A, DC 12V
UPC	717018320494

7. MAINTENANCE

- **Cleaning:** Regularly clean the exterior of the device with a soft, dry cloth. Do not use liquid or aerosol cleaners.
- **Ventilation:** Ensure proper airflow around the device to prevent overheating. Do not block ventilation openings.
- **Environment:** Operate the device in a cool, dry environment, away from direct sunlight, heat sources, and excessive dust or moisture.
- **Firmware Updates:** Periodically check the manufacturer's website for firmware updates to ensure optimal performance and security.

8. TROUBLESHOOTING

- **No Power:**
 - Check if the power cable is securely connected to both the device and the power outlet.
 - Ensure the power switch on the rear panel is in the **ON** position.
 - Verify the power outlet is functional.
- **No Network Connectivity:**
 - Check all Ethernet and fiber optic cable connections.
 - Verify that the link/activity LEDs for the connected ports are active.
 - Ensure proper IP configuration and VLAN settings.
- **PON Link Issues:**
 - Check the fiber optic cable for damage or improper connection.
 - Ensure the PON module is correctly seated.
 - Verify PON signal levels through the management interface.
- **Device Unresponsive:**

- Attempt to access the device via the Console port.
- If necessary, perform a soft reset using the Reset button (refer to the software guide for reset procedures).

9. WARRANTY AND SUPPORT

9.1 Warranty Information

The BAUDCOM BD-OLT-1000GZ comes with a **1-year warranty** from the date of purchase. Please retain your proof of purchase for warranty claims. The warranty covers manufacturing defects but does not cover damage caused by misuse, accidents, unauthorized modifications, or improper installation.

9.2 Technical Support

For technical assistance, troubleshooting, or warranty inquiries, please contact BAUDCOM support using the following information:



Figure 6: BAUDCOM Contact Information. This image provides various methods to contact BAUDCOM for support.

- **Email:** info@baudcom.com.cn
- **Phone:** +86 21 37709251
- **Skype:** robert.luo905
- **WhatsApp:** +8617317919235
- **Address:** 519A, Building A, Lianming Road 389, Minhang District, Shanghai City, China
- **Website:** www.baudcom.com.cn