SOFTEL

OLT-G1H

Single-Port GPON OLT Product Datasheet



Product Introduction：

OLT-G1H is a box-type single-port GPON OLT with high performance and competitive pricing. It features a built-in fan for excellent heat dissipation. The PON port supports a split ratio of up to 1:128, with a maximum transmission distance of 20 km. The upstream and downstream bandwidth reaches 1.25 Gbps / 2.5 Gbps. OLT-G1H is widely used in FTTH, SOHO, and small enterprise office scenarios.

Features：

Electrical and Physical Parameters

- Power Supply Mode: DC 12V/2A DC power supply
- Full-load Power Consumption: ≤18W
- Dimensions: 165 mm × 165 mm × 32 mm
- Overall Weight: ≤0.7kg
- Heat Dissipation Mode: Natural air cooling, fanless and zero noise
- Operating Temperature: -20℃ ～ +70℃
- Operating Humidity: 5% ～95% (non-condensing)

Basic Forwarding Functions

- Supports 802.1Q VLAN division, port VLAN, and tag transparent transmission /stripping /replacement
- Supports port isolation, broadcast storm suppression and port traffic rate limiting
- Supports MAC address learning, static MAC binding and MAC aging time configuration

- Supports link detection, port status monitoring and link fault alarm

PON Management Functions

- Adopts standard OMCI protocol management, compatible with mainstream brands of GPON ONU terminals
- Supports automatic ONU registration, manual registration, password authentication and illegal ONU interception
- Supports ONU status monitoring, optical power detection, online duration query and fault alarm notification
- Supports batch ONU configuration delivery, firmware upgrade and parameter backup & restoration
- Supports DBA dynamic bandwidth allocation to realize balanced bandwidth scheduling for multiple users

Operation and Maintenance Management Functions

- Management modes: Console local debugging, WEB visual network management
- Supports device restart and recovery, factory reset, configuration import/export and firmware upgrade
- Supports system log recording, fault log query and port traffic statistics viewing
- Supports account password permission management, login timeout and brute force cracking prevention

Highlights

- A single PON port supports a maximum of 128 online ONUs simultaneously
- Support the registration of ONUs such as Huawei, ZTE, FiberHome, Cdata, VSOL, Focuscom, etc
- Supports private nodes for Huawei, ZTE, FiberHome, Cdata, VSOL, and Focuscom ONUs, allowing configuration of WAN, WIFI, voice, and TR069 for ONUs from OLT

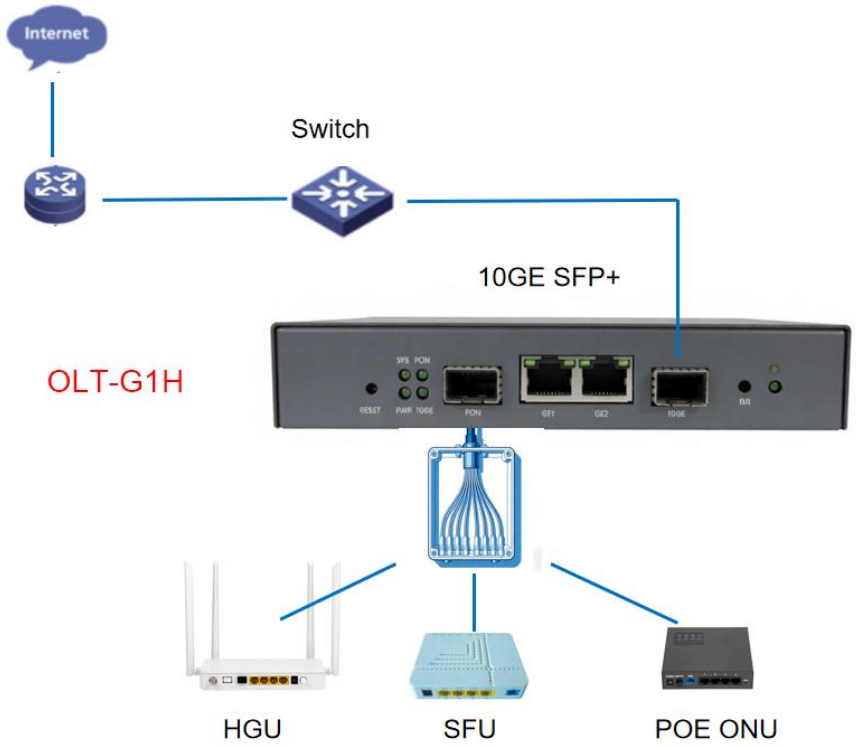
Hardware Interface Specifications

Interface Type/Quantity	**Interface Specifications**	**Function Description**
GPON PON Port (1)	SC/UPC interface, compliant with ITU-T G.984 series standards; Downstream rate: 2.488Gbps; Upstream rate: 1.244Gbps; Working wavelength: downstream	Connect downstream GPON ONU terminals to realize optical fiber service transmission

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	1490nm, upstream 1310nm; Default C++ optical module, transmitting optical power: 7.5±0.5dBm; receiving sensitivity: -32dBm; Maximum split ratio 1:64, maximum transmission distance 20km	
GE Gigabit Electrical Port (2)	RJ45 interface, supports 10/100/1000M rate adaptive, full/half duplex adaptive, and automatic network cable crossover	Uplink connection with switches and routers, or transparent transmission of downstream terminal services
XGE 10G Optical Port（1）	SFP+ slot, compatible with 10G SFP+ optical modules and DAC high-speed cables, full-duplex 10Gbps transmission rate	High-speed uplink aggregation to meet high-bandwidth service transmission requirements
Console Debug Serial Port（1）	Standard RS232 serial port	Local device initialization, parameter configuration and fault debugging & maintenance

Application Scenarios：



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