

Rack-Mounted GPON OLT

# UB5004 GL

4 PON PORTS

TRIPLE POWER SUPPLY

2 AC & 1 DC (BBU)



## Product Description

GPON OLT **UB5004 GL** completely meet relative standard of ITU G.984.x and FSAN, which is 1U rack-mounted device with 1 USB interface, 4 uplink GE ports, 4 uplink SFP ports, 2 10-gigabit uplink ports and 4 GPON ports, each GPON port supports the splitting ratio of 1:128 and provides downstream bandwidth of 2.5Gbps and upstream bandwidth of 1.25Gbps, system support 512 GPON terminals accessing in for the most.

This product meets the requirements in device performance and size of compact server room as the product has high performance and compact size, is convenient and flexible to use, and is easy to deploy as well. Moreover, the product meets the requirements of promoting network performance, improving reliability and reducing power consumption in the perspective of access network and enterprise network and is applicable to three-in-one broadcast television network, FTTP (Fiber to the premise), video monitoring network, enterprise LAN (Local Area Network), internet of things and other network applications with a very high price/performance ratio.

## Product Features

- Meet ITU-T G.984/G.988 standard and relative GPON standards of Communication Industry
- Support OMCI remote management for ONT/ONU, compatible with ITU-T G.984.4/G.98 OMCI Protocol
- 1U height 8PON OLT product in compact design of Pizza-Box
- Complete PON protection switching function
- Layer 2 Switching Function
- Easy-to-Use management system

### » Layer 2 Switching Function

OLT equips with very powerful layer 2 Full Wire Speed Switching and completely supports layer 2 protocol. OLT supports varieties of layer 2 functions like TRUNK, VLAN, LACP, rate limit, port isolate, queue technology, flow control technology, ACL and so on, which provides technical guarantee for the development of multi-service integrated.

### » QOS Guarantee

GPON Products maintains fully-improved DBA with excellent Qos service capabilities. DBA meets different Qos requirements from different service flow in latency, jitter, packet loss rate.

# PRODUCT FEATURES AND SPECIFICATIONS

## UB5004 GL

### General Specifications

- » Dimensions  
440mm(L)\*230mm(W)\*44mm(H)
- » Weight 4 kg
- » Support DC Power backup thorough UPS
- » Power supply:  
220VAC AC: 100V~240V, 50/60Hz  
12V -5Amp DC DC : -40V~-72V
- » Power consumption: 60w
- » Operating temperature: 15~50°C
- » Storage temperature: -40~85°C

### 10G SFP+ Port Specification

- » Transmission Distance: 20KM
- » PON port speed: 8.5-10.51875 Gbps
- » Wavelength: 1310nmTX,  
1310nmRX
- » Connector: LC
- » Fiber Type: Single mode with dual fiber
- » TX Power: -8.2~+0.5 dBm
- » Rx Sensitivity: -12.6dBm

### Operating Environment

- » Working Temperature: -15~50°C
- » Storage Temperature: -40~85°C
- » Relative Humidity: 5~90%  
(non-condensing)

### EPON Function

- » In compliant with IEEE802.3ah Standard
- » Up to 20KM transmission Distance
- » Support ONU auto-discovery/remote upgrade of software;
- » Support dynamic distance calculation on EMS online
- » Support RSTP, IGMP Proxy

### Uplink Port

- » 10G SFP+ Uplink Interface: 2
- » Optical Interface 1G: 4
- » Copper 10/100/1000M  
Auto-negotiable RJ45 Port : 4

### PON Port Specification

- » Transmission Distance: 20KM
- » PON port speed: Symmetrical 2.5Gbps
- » Wavelength: 1490nm TX,  
1310nm RX
- » Connector: SC/PC
- » Fiber Type: 9/125µm SMF
- » TX Power: +2.5~+7dBm
- » Rx Sensitivity: -27dBm
- » Saturation Optical Power: -6dBm

### Management Mode

- » SNMP, Telnet, WEB , CLI management mode

### Management Function

- » Fan Group Detecting
- » Port Status monitoring and configuration management
- » Layer-2 switch configuration such as VLAN, Trunk ,RSTP,IGMP ,QOS, etc;
- » EPON management function: DBA ,ONU authorization, ACL ,QOS ,etc;
- » Online ONU configuration and management
- » User management
- » Alarm management

### PON Port

- » QTY: 4
- » Physical Interface: SFP Slots
- » Connector Type: 1000BASE-PX20+
- » Max splitting ratio: 1:128

### USB Port

- » QTY: 1
- » Connector Type: Type-C

### Management Ports

- » 1 100/1000 BASE-Tx out-bands Eth.t port
- » 1 CONSOLE local management port

### Layer-two Switch

- » Support port VLAN and protocol VLAN
- » Support VLAN tag/Untag, VLAN transparent transmission;
- » Support 4096 VLAN
- » Support 802.3dd trunk
- » RSTP
- » QOS based on port, VID, TOS And MAC address
- » IGMP Snooping
- » 802.x flow control
- » Port stability statistic and monitoring

### Layer-three Route

- » Support Static routing protocol
- » Support Dynamic RIP protocol
- » Support DHCP-Relay function
- » Support VLAN if interface configuration

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