

Rack-Mounted EPON OLT

## UB5004 EL

4 PON PORTS

TRIPLE POWER SUPPLY

2 AC & 1 DC (BBU)



### Product Description

EPON OLT **UB5004 EL** completely meet relative standards of IEEE 802.3x and FSAN. The equipment is a 1U rack-mounted device, providing 1 USB interface, 4 uplink GE ports, 4 uplink SFP ports, 2 10-gigabit uplink ports and 4 EPON ports. Single port supports 1:64 splitting ratio. System support 256 EPON 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 IEEE 802.3x standard and relative EPON standards of Communication Industry**
- » **Support OAM remote management for ONT/ONU, compatible with IEEE 802.3x OAM Protocol**
- » **1U height 4 PON OLT product in compact design**
- » **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, 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**

It can provide various QoS for EPON system, which can meet different QoS requirements for delay, jitter, and packet loss rate of different service flows.

#### » **Easy-to-Use Management System**

Support management method of CLI, WEB, SNMP, TELNET, SSH and meet OAM standard, through OAM channel protocol service management can be realized, including ONT function parameter set, Qos parameters, configuration information request, performance statistics, auto-reporting of running events in system, configuration for ONT from OLT, fault diagnosis and management of performance and safety.

## PRODUCT FEATURES AND SPECIFICATIONS

# UB5004 EL EPON OLT

### 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: 10KM
- » 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 1.25Gbps
- » 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: 1:64

### 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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