

# GPON OLT



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U.P: 201301

Manufactured by:  **e Hoomo IoT**  
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## PRODUCT CHARACTERISTICS

- Applicable to county and town level fiber optic network access and monitoring transmission, meets FTTH requirements to provide complete access to IP telephony, broadband data, IPTV, etc.
- System Structure: Provide 8 downstream GPON ports, 4\*1000Base-T up-link ports and 4\*10GE optical SFP+ up-link ports.
- The SFP+ port with an expansion function, which can adapt to 1GE SFP or 10GE SFP+.
- System Capacity: 1:128 split ratio.
- Up-link Interface: Flexible design supports multiple types network interfaces, optical or electrical interfaces optional based on network conditions.
- Supports dual power supply.
- 1U device takes small space, low power consumption, which reduce the total cost.

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# PRODUCT SPECIFICATIONS

ITEM

EC2108P2

EC2116P2

## GENERAL

Switching Capacity	118 Gbps	148 Gbps
Mac Address	64K	
Ports	8*PON ports, 4*10G SFP+, 4*1000Base-T	16*PON ports, 4*10G SFP+, 4*GE TX
Power redundancy	Dual power supply. Can be double AC.double DC or AC +DC(optional)	
Power supply	AC:Input85~264V,47~ 63Hz DC:Input -36V~-75V	
Maximum Power	70W	80W
Outline dimensions (mm) (W*D*H)	440mm x 312mm x 44mm	440mm x 310mm x 44mm
Weight	5 KG	
Environmental requirements	Working temperature: -10°C ~ 50°C Storage temperature:-40°C ~ 85°C Relative humidity: 5% ~ 95%, no condensing	

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# PRODUCT FEATURES

## GPON

- Satisfy ITU-T G.984.x/ITU-T G.988 standard
- High splitter rate, each PON port supports 128\*ONUs
- Maximum transmission distance of 20KM
- Support uplink FEC, downlink FEC(Forward Error Correction)
- ONU identifier authentication: SN/SN+PASSWD/LOID
- Bandwidth Allocation mechanism  
5 types of T-CONT bandwidth  
Static Bandwidth Allocation  
Dynamic Bandwidth Allocation

## MAC

- MAC Black Hole
- Port MAC Limit

## VLAN

- 4K VLAN entries
- Port-based/MAC-based/IPsubnet based VLAN
- Port-based QniQ and Selective QinQ(Stack VLAN)
- VLAN Swap and VLAN Remark and VLAN Translate
- Based on ONU service flow VLAN add, delete,replace

## L2 Protocol

- STP, RSTP, MSTP

## Port

- Bi-directional bandwidth control
- Static link aggregation and LACP(Link Aggregation Control Protocol)
- Port Mirroring and trafficmirroring

## L3 Protocol

- OSPF, IS-IS, BGP

## Device security

- Anti-DOS attack

## Network maintenance

- Telnet-based statistics
- RFC3176 sFlow
- LLDP
- RFC 3164 BSD syslog Protocol
- Ping and Traceroute

## Network security

- User-based MAC and ARP traffic examination
- Restrict ARP traffic of each user and force-out user with abnormal ARP traffic
- Dynamic ARP table-based binding
- Supports IP+VLAN+MAC+Port binding
- L2 to L7 ACL flow filtration mechanism on the 80 bytes of the head of user-defined packet
- Port-based broadcast/multicast suppression and auto-shutdown risk port
- URPF to prevent IP address counterfeit and attack
- DHCP Option82 and PPPOE+ upload user's physical location
- Plain-text authentication of OSPF/RIPv2 and MD5 cartography authentication

## IPv4

- ARP Proxy
- DHCP Relay
- DHCP Server
- Static route

## IPv6

- ICMPv6
- ICMPv6 redirection
- DHCPv6
- ACLv6
- Configured Tunnel
- 6to4 tunnel
- IPv6 and IPv4 Tunnels

## ACL

- Standard and extended ACL
- Time Range ACL
- Packet filter providing filtering based on
  - source/destination MAC address,
  - source/destination IP address, port, protocol,
  - VLAN, VLAN range, MAC address range, or invalid frame.
- System supports concurrent identification at most 50 service traffic
- Support packet filtration of L2~L7 even deep to 80 bytes of IP packet head

## QoS

- Rate-limit to packet sending/receiving speed of port or self-defined flow and provide general flow monitor and two-speed tri-color monitor of self-defined flow
- Priority remark to port or self-defined flow and provide 802.1P, DSCP priority and Remark
- CAR(Committed Access Rate),Traffic Shaping and flow statistics
- Packet mirror and redirection of interface and self-defined flow
- Super queue scheduler based on port and self-defined flow. Each port/flow supports 8 priority queues and scheduler of SP,WRR and SP+WRR.
- Congestion avoid mechanism, including Tail-Drop and WRED

## Multicast

- IGMPv1/v2/v3
- IGMPv1/v2/v3 Snooping
- IGMP Filter
- MVR and cross VLAN multicast copy
- IGMP Fast leave
- IGMP Proxy
- MLDv2/MLDv2 Snooping

## Loop protection

- EAPS and GERP(recover-time<50ms)
- Loop-back detection

## Link protection

- Flex-Link(recover-time<50ms)
- RSTP/MSTP(recover-time<1s)
- LACP(recover-time<10ms)

## Device protection

- Double fault-tolerant backup of host program and configuration files
- 1+1 power hot backup

## Device management

- Web management
- Console/Telnet, Command-line interface (CLI)
- Upgrade via FTP
- System configuration with SNMPv1/v2/v3
- RMON(Remote Monitoring)
- Support SNTP network time protocol

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