EPON OLT

Registered Office: E- home Iot Pvt.Ltd.
Ideal Centre, 1st Floor,9 A.J.C Bose road
Kolkata:700017
Email: sales@ehoome.in
Website: www.ehoome.in

Delhi Office : C-171,Ground Floor
Defense Colony
New Delhi: 110024

Factory: A-13, Sector-83,
Phase-II,Noida,
U.P: 201301

Manufactured by: e Hoome IoT smart living

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PRODUCT CHARACTERISTICS

- Applicable to county and town level fiber optical network access and monitoring transmission, meets FTTH requirements to provide complete access to IP telephony, broadband data, IPTV, etc.

- Provides 4 downstream EPON ports, 4*1000Base-T uplink ETH ports and 4 Uplink SFP+ ports.

- System Capacity: 1:64 split ratio.

- Provides configuration for RS232 serial port (RJ45) and management for external network port.

- Supports CLI command line.

- Supports L2 exchange, L3 basic routing function, 4G switching broadband.

- Under the 1:32 splitter, the distance between the OLT and the ONU can reach 20km.

- Support WEB management and SNMP management, integrated switch function

- 1U rack mount, built-in cooling fan, good heat dissipation, stable operation.

PRODUCT SPECIFICATIONS

ITEM	EB1104P2	EB1108P2
GENERAL		
Dimension	440MM*309MM*44MM	
Weight	2.5KG	
Data interface	4 downstream EPON ports,4*1000Base-T uplink ETH ports and 4 Uplink SFP+ ports	8 downstream EPON ports,4*1000Base-T uplink ETH ports and 4 Uplink SFP+ ports
Management	1*10/100Base-T RJ45 port, with management	
Indicator light	RUN: system is running ALM: system alarms PWR: power indicator EPON1-EPON4: PON port link status 4*GE: ETH uplink port link status 4*XG: SFP+ uplink port link status	
Power supply	AC: Input 90～264V	
Operation	working temperature:-5℃～+50℃ working humidity:10%-90%(non-condensation)	

SOFTWARE FEATURES

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)

Network maintenance
- Telnet-based statistics
- RFC3176 sFlow
- LLDP
- 802.3ah Ethernet OAM
- RFC 3164 BSD syslog Protocol
- Ping and Traceroute

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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SOFTWARE FEATURES

EPON
- IEEE 802.3ah standard, CTC 2.0/2.1/3.0 standard
- Support standard OAM and extended OAM
- High splitting ratio, each PON port supports 64*ONUs Maximum transmission distance 20KM
- Support uplink FEC, downlink FEC(forward error correction)
- Bandwidth allocation mechanism
- 5 T-CONT bandwidths
- Static bandwidth allocation
- Dynamic bandwidth allocation

MAC
- MAC Black Hole
- Port MAC Limit

VLAN
- 4K VLAN entries
- Port-based/MAC-based/IP subnet-based VLAN
- Port-based QinQ 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

User security
- Anti-ARP spoofing
- Prevent ARP flooding
- IP Source Guard create IP+VLAN+MAC+Port binding
- Port Isolation
- MAC address binds to port and port MAC address filtration
- IEEE 802.1x and AAA/Radius authentication
- DHCP anti-attack flood attack automatic suppression
- ONU isolation control

Device security
- Anti-DOS attack(such as ARP, Syn flood,
- Smurf, ICMP attack),ARP detection, worm and Ms-blaster worm attack
- SSHv2 Secure Shell
- SNMP v3 encrypted management
- Security IP login through Telnet
- Hierarchical management and password protection of users

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

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