DIBSYS

High-intensity Rack-mount OLT

Model: EPT8610

Product Profile

EPT8610 series is a high integration and medium capacity cassette EPON OLT designed for operators access and enterprise campus network. It follows the IEEE802.3 ah technical standards as well as meets the EPON OLT equipment requirements of YD/T 1945-2006 Technical requirements for access network——based on Ethernet Passive Optical Network(EPON) and China telecom EPON technical requirements 3.0. EPT8610 series possesses excellent openness, large capacity, high reliability, complete software function, efficient bandwidth utilization and Ethernet business support ability, widely applied to the operator front-end network coverage, private network construction, enterprise campus access and other access network construction.

EPT8610 series provides 4/8/16 downlink 1000M EPON ports, 8 GE Ethernet ports and 2/4 10G uplink ports. The height is only 1U for easy installation and space saving. It adopts the advanced technology offering efficient EPON solution. Moreover, it saves a lot cost for operators because it can support different ONU hybrid networking.

EPT8610-04P

- 1RU19 inch rack
- 1+1 power supply redundancy
- 4 fixed EPON ports
- 4*10GE SFP+optical port +8GE copper port
- 1 console port
- Power consumption≤ 40W

EPT8610-08P

- 1RU19 inch rack
- 1+1power supply redundancy
- 8 fixed EPON ports
- 4*10GE SFP+optical port +8GE copper port
- 1 console port
- Power consumption≤ 45W

DIBSYS

EPT8610-16P

- 1RU19 inch rack
- 1+1power supply redundancy
- 16 fixed EPON ports
- 4GE SFP, 4*GE COMBO ports
- 2*10GE SFP+optical port
- 1 console port
- Power consumption≤ 85W

Technical Specifications

Attributes	EPT8610-04P	EPT8610-08P	EPT8610-16P
Service Port	4*PON port, 4*10GE/GE SFP+optical port +8GE copper port	8*PON port, 4*10GE/GE SFP+optical port +8GE copper port	16*PON port, 4*GE SFP optical port, 4*GE COMBO port, 2*10GE/GE SFP+optical port
Power Consumption	≤40W	≤45W	≤85W
Redundancy Design	Built-in double power supply, including AC input, double DC input, AC+DC input, single AC input, single DC input, distinguished via model		Pluggable double power supply, double AC input, double DC input and AC+DC input
Dimensions (WidthxDepthxHeight)	440mm×44mm×311mm		442mm×44mm×380mm
Switching Capacity	128Gbps		
Forwarding Capacity(Ipv4/Ipv6)	95.23Mpps		
Power Supply	AC:input100~240V 47/63Hz; DC:input36V~75V;		
Weight	≤3kg		

(Full-Loaded)	
Environmental Requirements	Working temperature:-10°C~55°C Storage temperature:-40°C~70°C Relative humidity:10%~90%, non-condensing

Service Specifications

PON Features	
	IEEE 802.3ah EPON China Telecom/Unicom EPON PON transmission distance reaches 20 Km Each PON port supports the max. 1:64 division ratio Uplink and downlink triple churning encrypted function with 128Bits Standard OAM and extended OAM ONU batch software upgrade, fixed time upgrade, real time upgrade PON transmit and inspect receiving optical power PON port optical power detection
L2 Features	
MAC	MAC Black Hole Port MAC Limit 16K MAC address
VLAN	4K VLAN entries Port-based/MAC-based/protocol/IP subnet-based QinQ and flexible QinQ (StackedVLAN) VLAN Swap and VLAN Remark PVLAN to realize port isolation and saving public-vlan resources GVRP
Spanning Tree	STP/RSTP/MSTP Remote loop detecting
Port	Bi-directional bandwidth control Static link aggregation and LACP(Link Aggregation Control Protocol) Port mirroring
Security Features	

User	Anti-ARP-spoofing Anti-ARP-flooding IP Source Guard create IP+VLAN+MAC+Port binding Port Isolation MAC address binding to the port and MAC address filtering IEEE 802.1x and AAA/Radius authentication
Device	Anti-DOS attack(such as ARP,Synflood, Smurf, ICMP attack), ARP detection, worm and Msblaster worm attack SSHv2 Secure Shell SNMP v3 encrypted management Security IP login through Telnet Hierarchical management and password protection of users
Network	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 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 Plaintext authentication of OSPF,RIPv2 and BGPv4 packets and MD5 cryptograph authentication
IP routing	
IPv6	SA/DA Classification MLD Snooping
Service Features	
ACL	Standard and extended ACL Time Range ACL Flow classification and flow definition based on source/destination MAC address,VLAN,802.1p,ToS,DiffServ,source/destination IP(IPv4/IPv6) address,TCP/UDP port number,protocol type, etc packet filtration of L2~L7 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 or 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 PIM-SM/PIM-DM/PIM-SSM PIM-SMv6,PIM-DMv6,PIM-SSMv6 MLDv2/MLDv2 Snooping
Reliability	
Loop Protection	EAPS and GERP (recover-time <50ms) Loopback-detection
Link Protection	FlexLink (recover-time <50ms) RSTP/MSTP (recover-time <1s) LACP (recover-time <10ms) BFD
Device Protection	VRRP host backup 1+1 power hot backup
Maintenance	
Network Protection	Port real-time, utilization and transmit/receive statistic based on Telnet RFC3176 sFlow analysis LLDP 802.3ah Ethernet OAM RFC 3164 BSD syslog Protocol Ping and Traceroute
Device Management	CLI, Console port, Telnet and WEB SNMPv1/v2/v3 RMON (Remote Monitoring)1,2,3,9 groups MIB NTP NGBNView network management

DIBSYS

Order information

Products	Description
EPT8610-04P	4 * PON ports; 4*10GE SFP+optical port+8GE copper port AC/DC dual powers for option
EPT8610-08P	8 * PON ports; 4*10GE SFP+optical port+8GE copper port AC/DC dual powers for option
EPT8610-16P	16*PON port; 4*GE SFP optical port; 4*GE COMBO port; 2*10GE SFP+optical port; support pluggable power
NG01PWR100AC	Power module-NG01PWR100AC AC110~240V-100W
NG01PWR100DC	Power module-NG01PWR100DC DC36~72V-100W

Contact us

DIBSYS® Technologies

Email: sales@dibvision.com
Website: www.dibvision.com
Tel: +86 571 8971 4581
Fax: +86 571 8971 4580
Skype: dibdvb