



Easy Network, Trustable

8 Ports EPON Optical Line Terminal

EP8208



Features:

Carrier-class stability and network resiliency

- >Adopt large-scale NGBN operation system with intellectual property rights in the global carrier network
- >Support PON fiber redundancy protection and device redundancy protection protocol
- >Support rich security features to protect the users, devices and network
- >Dual power supply input and power redundancy
- >All PON and GE ports provide L2/L3 full-line speed without losing packets

Full PON service

- >Each PON support 1:64 splitting ratio (The maximum quantity of 64 ONU)
- >Hot plug PON fiber module design, the farthest 20Km transmission distance
- >Support 128bits triple churning function to ensure the confidential for the data transmission
- >Support dynamic bandwidth distribution DBA algorithm

Powerful OAM

- >Use packet forwarding based on hardware to be effective for feature detection and packet filtering
- >Support auto protection and user blocking for ARP attack based on MAC address
- >Support all kinds of protecting DDoS, CPU over-current and VRRP etc
- >Support BFD, FlexLink, auto linkage aggregation and Ethernet Ring protection

What it does:

EP8208 is designed for chassis OLT device which provides 8 downlink 1000M PON ports, 8 uplink GE Combo ports by GOM. The height is only 1U for easy installation and space saving. Each PON supports up to 64 terminals, the whole device supports up to 512 ONUs under full configuration. EP8208 adopts advanced technology to support SLA and DBA to keep strong function on the Ethernet and QoS features. EP8208 is applied for commercial and grid network digital management to provide perfect, smart, strong, advanced, professional solutions for “automatic distribution” and “electricity information collection” in the implemented project for the national grid.

Specification:

Hardware

Switching capacity	32Gbps
Throughput(IPv4/IPv6)	9.5Mpps
Interface	8*PON, 8*GE Combo
Power Supply	100-240V AC/50-60Hz
Power consumption	≤46W
Dimension(L x W x H)	442 x 44 x 315mm

Software

PON features		IEEE 802.3ah EPON China telecom/Unicom GEAPON standard 20Km for single fiber Access 64 terminals for single fiber PON Uplink and downlink triple churning encrypted function ONU terminal legitimacy certification, report illegal ONU registration DBA algorithm Standard OAM and extended OAM ONU batch software upgrade, fixed time upgrade, real time upgrade PON transmit and inspect receiving optical power
L2 features	MAC	MAC Black Hole Port MAC Limit 8K MAC address
	VLAN	4K VLAN entries Port-based/MAC-based/IP subnet-based VLAN Port-based QinQ and Selective QinQ (StackVLAN) VLAN Swap and VLAN Remark and VLAN Translate GVRP Based on ONU service flow VLAN add, delete, replace
	Spanning tree protocol	IEEE 802.1D Spanning Tree Protocol (STP) IEEE 802.1w Rapid Spanning Tree Protocol (RSTP) IEEE 802.1s Multiple Spanning Tree Protocol instances (MSTP) ONU remote loop detecting alarm
	Port	Bi-directional bandwidth control Static link aggregation and LACP(Link Aggregation Control Protocol) Port mirroring and traffic mirroring
Security features	User security	Anti-ARP-spoofing Anti-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
	Device security	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 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 Plaintext authentication of OSPF, RIPv2 and BGPv4 packets and MD5 cryptograph authentication
	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

Security features	Ipv6	SA/DA Classification MLD Snooping
	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 Double fault-tolerant backup of host program and configuration files PON card/fan hot-swappable 1+1 power hot backup
Maintenance	Network maintenance	Telnet-based statistics RFC3176 sFlow LLDP 802.3ah Ethernet OAM RFC 3164 BSD syslog Protocol Ping and Traceroute
	Device management	Command-line interface (CLI) , Console, Telnet and WEB configuration System configuration with SNMPv1/v2/v3 RMON (Remote Monitoring)1/2/3/9 groups of MIB NTP(Network Time Protocol) GN.Link II Server NGBNView network management

Others

Certification	FCC, CE	
Environment	Operating Temperature: 0°C~40°C(32°F~104°F) Operating Humidity: 10%~90% RH non-condensing	Storage Temperature: -40°C~70°C (-40°F~158°F) Storage Humidity: Less than 95% RH non-condensing
Package	1 * EP8208 2 * Rackmount Brackets and the Fittings	1 * Power Cord

Topological Graph:

