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GPON OLT

L8(8*PON/4*GE/4*10G SFP+)

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Modelo
FHL2100-8

GPON OLT

L8

Overview

El FHL2100-8 es una serie GPON OLT de caja 1U de alta densidad. Utiliza la tecnología comercial líder en la industria cuenta con chip para admitir completamente el estándar de tecnología ITU-T G.984.x y ITU-T G.988 GPON.

Puede realizar redes híbridas ONU de diferentes fabricantes y tiene buena interoperabilidad El sistema L8 tiene buena estabilidad y alta confiabilidad. es compatible múltiples modos de gestión como CLI, WEB y SNMP.

La gestión gráfica la interfaz es clara, amigable y fácil de usar. L8 proporciona 8 GPON descendentes puertos, puertos de enlace ascendente 4*1000Base-T y puertos de enlace ascendente SFP+ ópticos 4*10G, el puerto SFP+ con una función de expansión, que puede adaptarse a 1GE SFP o 10GE SFP+.L8

La tecnología avanzada industrial, con potentes servicios Ethernet y función QOS, compatible con SLA y DBA. La relación de división hasta 1:128, compatible con diferentes tipos de ONU en diferentes redes, minimizando las inversiones de los operadores.

La altura 1U puede ser fácil para instalar y mantener. Es una excelente opción para que los operadores desplieguen rápidamente FTTH
redes.

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, full configuration supports up to 1024 GPON terminals.
* 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.

Specification

General	
Item	L8
Switching capacity	118Gbps
Mac Address	64K
Ports	8*PON ports,4*10G SFP+,4*1000Base-T
Power redundancy	AC: Input 85～264V,47～63Hz DC: Input -36V～-75V
Maximum Power	70W
Outline dimensions (mm) (W*D*H)	440mm×312mm×44mm
Weight	≤5kg
Environmental requirements	Working temperature: -10°C~50°C Storage temperature:-40°C～85°C Relative humidity:5%～95%,no condensing

Product Features

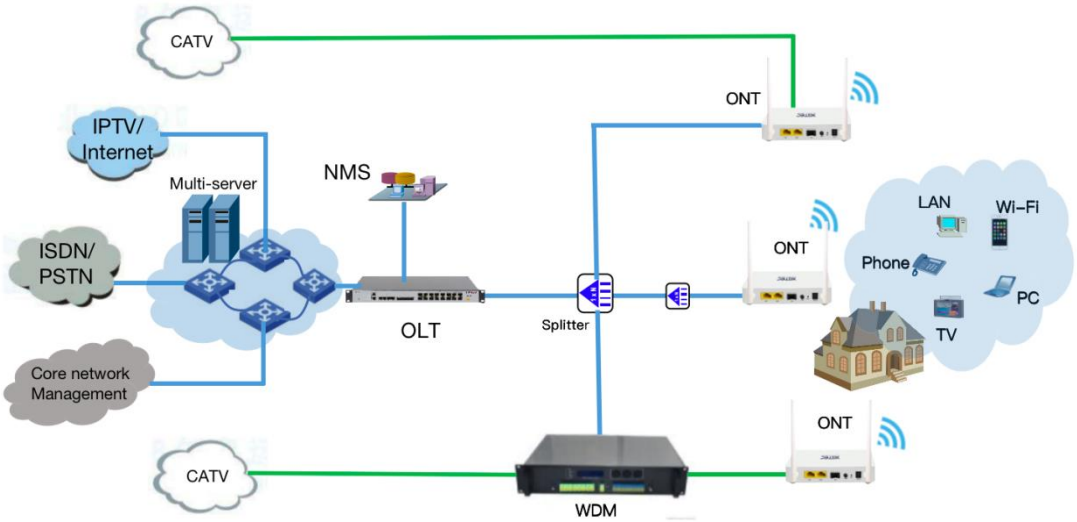
General	
Item	L8
GPON	Satisfy ITU -T G.984.x/ITU -T G.988 standard High splitter rate, each PON port supports

	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/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 traffic mirroring
L3 Protocol	OSPF, IS-IS, BGP
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 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
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
Network maintenance	Telnet-based statistics RFC3176 sFlow LLDP RFC 3164 BSD syslog Protocol Ping and Traceroute
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

Application



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