

GL5600-08P Cassette OLT

GL5600-08P cassette OLT provides 8 downstream GPON ports, 8 uplink GE optical port and 8 GE electrical ports, with an expansion slot, which can access 2 10GE SFP+ ports. The 1U height can be easily installed and maintained to save space. The GL5600-08P adopts the industrial advanced technology, with powerful Ethernet services and QoS feature, supporting SLA and DBA. The splitting ratio up to 1:128, supporting different types of ONU in different networks, minimizing operators' investments.



Product Specification:

Attributes	GL5600-08P
Switching capacity	102Gbps
Throughput (IPv4/IPv6)	75.88MPPS
Ports	8*PON port, 8*GE FX+8*GE TX, 2*10GE SFP+
Power redundancy	Dual power supply. Can be double AC, double DC or AC+DC
Power supply	AC: Input 100~240V, 47~63Hz; DC: Input -36V~-75V;
Power consumption	≤85W
Outline dimensions (mm) (W*D*H)	440mmx44mmx380mm
Weight (in maximum configuration)	≤3kg
Environmental requirements	Working temperature: -15°C~55°C Storage temperature: -40°C~70°C Relative humidity: 10%~90%, no condensing

Business Features:

Attributes	GL5600-08P series
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PON features	GPON	<p>Satisfy ITU -T standard TR-101 compliant solution for FTTx OLT applications High splitter rate, each PON port supports 128*ONU ,384*T-CONT Maximum transmission distance of 20KM Support uplink FEC, downlink FEC(Forward Error Correction) ONU identifier authentication :SN /SN+PASSWD Bandwidth allocation mechanism 5 types of T-CONT bandwidth Static Bandwidth Allocation Dynamic Bandwidth Allocation GPON feature parameter 4096 port-IDs per GPON MAC (Downstream and Upstream) 1024 Alloc -IDs per GPON MAC (Upstream)</p>
L2 features	MAC	<p>MAC Black Hole Port MAC Limit</p>
	VLAN	<p>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</p>
	Spanning tree protocol	<p>IEEE 802.1D Spanning Tree Protocol (STP) IEEE 802.1w Rapid Spanning Tree Protocol (RSTP) IEEE 802.1s Multiple Spanning Tree Protocol instances (MSTP)</p>
	Port	<p>Bi-directional bandwidth control Static link aggregation and LACP(Link Aggregation Control Protocol) Port mirroring and traffic mirroring</p>
Security features	User security	<p>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 TACACS+ authentication dhcp anti-attack flood attack automatic suppression ONU isolation control</p>
	Device security	<p>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</p>

		Hierarchical management and password protection of users
	Network security	<p>User-based MAC and ARP traffic examination</p> <p>Restrict ARP traffic of each user and force-out user with abnormal ARP traffic</p> <p>Dynamic ARP table-based binding</p> <p>Supports IP+VLAN+MAC+Port binding</p> <p>L2 to L7 ACL flow filtration mechanism on the 80 bytes of the head of user-defined packet</p> <p>Port-based broadcast/multicast suppression and auto-shutdown risk port</p> <p>URPF to prevent IP address counterfeit and attack</p> <p>DHCP Option82 and PPPoE+ upload user's physical location</p> <p>Plaintext authentication of OSPF、RIPv2 and MD5 cryptograph authentication</p>
IP routing	IPv4	<p>ARP Proxy</p> <p>DHCP Relay</p> <p>DHCP Server</p> <p>Static route</p>
	IPv6	<p>ICMPv6</p> <p>ICMPv6 redirection</p> <p>DHCPv6</p> <p>ACLv6</p> <p>Configured Tunnel</p> <p>6to4 tunnel</p> <p>IPv6 and IPv4 Tunnels</p>
Service features	ACL	<p>Standard and extended ACL</p> <p>Time Range ACL</p> <p>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</p> <p>Support packet filtration of L2~L7 even deep to 80 bytes of IP packet head</p>
	QoS	<p>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</p> <p>Priority remark to port or self-defined flow and provide 802.1P, DSCP priority and Remark</p> <p>CAR(Committed Access Rate)、Traffic Shaping and flow statistics</p> <p>Packet mirror and redirection of interface and self-defined flow</p> <p>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.</p> <p>Congestion avoid mechanism, including Tail-Drop and WRED</p>

	Multicast	<p>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</p>
	MPLS	NPLS LDP
Reliability	Loop protection	<p>EAPS and GERP (recover-time <50ms) Loopback-detection</p>
	Link protection	<p>FlexLink (recover-time <50ms) RSTP/MSTP (recover-time <1s) LACP (recover-time <10ms) BFD</p>
	Device protection	<p>VRRP host backup Double fault-tolerant backup of host program and configuration files 1+1 power hot backup</p>
Maintenance	Network maintenance	<p>Telnet-based statistics RFC3176 sFlow LLDP 802.3ah Ethernet OAM RFC 3164 BSD syslog Protocol Ping and Traceroute</p>
	Device management	<p>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)</p>