

GL5610 Series Smart Cassette GPON OLT

GL5610 is a small-capacity cassette GPON OLT, which meets *ITU-T G.984 / G.988* standards with super GPON access capacity, carrier-class reliability and the complete security function. It can satisfy long-distance optical fiber access requirement on account of its excellent management, maintenance and monitoring capabilities, abundant service features and flexible network mode. GL5610 can be used with NGBNVIEW network management system so as to provide users with the comprehensive access and perfect solution.

GL5610 provides 4/8/16*GPON ports, 4*GE combo ports and 2* 10G SFP+ ports. The height is only 1U for easy installation and space saving. GL5610 is suitable for Triple-play, video surveillance network, enterprise LAN, Internet of Things, etc.

GL5610-04P



- 1 RU19 inch
- 1+1 power redundancy
- 4* fixed GPON port
- 4*GE COMBO , 2*10GE SFP+
- 1* console port

GL5610-08P



- 1 RU19 inch
- 1+1 power redundancy
- 8* fixed GPON port
- 4*GE COMBO , 2*10GE SFP+
- 1* console port

GL5610-16P



- 1 RU19 inch
- 1+1 power redundancy
- 16* fixed GPON port
- 4*GE COMBO port, 2*10GE SFP+ port
- 1* console port

Product Specification

Item	GL5610-04P/08P/16P
Switching Capacity	63Gbps/78Gbps/108Gbps
Forwarding Capacity(Ipv4/Ipv6)	50Mpps/65Mpps/95Mpps
Service Port	4/8/16*PON ports, 4*GE COMBO ports, 2*10GE SFP+ ports
Redundancy Design	Dual power supply Support AC input, double DC input and AC+DC input
Power Supply	AC: input 90~264V 47/63Hz DC: input -36V~-72V
Power Consumption	≤80W
Dimensions (Width x Depth x Height)	440mmx44mmx380mm
Weight (Full-Loaded)	≤5kg
Environmental Requirements	Working temperature: -10°C~50°C Relative humidity: 10%~90%, non-condensing

Product Features

Item	GL5610-04P/08P/16P
PON Features	<p>ITU-TG.984.x standard</p> <p>Maximum 40km PON transmission distance</p> <p>access 128 terminals for single fiber PON</p> <p>Uplink and downlink triple churning encrypted function with 128Bits</p> <p>ONU terminal legitimacy certification, report illegal ONU registration</p> <p>DBA algorithm, the particle is 1Kbit/s</p> <p>Standard OMCI management function</p> <p>ONU batch software upgrade, fixed time upgrade, real time upgrade</p> <p>PON port optical power detection</p>
L2 Features	<p>MAC</p> <p>MAC Black Hole</p> <p>Port MAC Limit</p> <p>64K MAC (packet exchange chip cache 2MB, external cache 720 MB)</p>
	<p>VLAN</p> <p>4K VLAN entries</p> <p>Port-based/MAC-based/protocol/IP subnet-based</p> <p>QinQ and flexible QinQ (StackedVLAN)</p> <p>VLAN Swap and VLAN Remark</p> <p>PVLAN to realize port isolation and saving public-vlan resources</p> <p>GVRP</p>
	<p>Spanning Tree</p> <p>STP/RSTP/MSTP</p> <p>Remote loop detecting</p>

	Port	Bi-directional bandwidth control Static link aggregation and LACP(Link Aggregation Control Protocol) Port mirroring
Security Features	User's Security	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 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 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
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

		<p>SP+WRR. Congestion avoid mechanism, including Tail-Drop and WRED</p>
	IPv4	<p>ARP Proxy DHCP Relay DHCP Server Static Routing RIPv1/v2 OSPFv2 BGPv4 Equivalent Routing Routing Strategy</p>
	IPv6	<p>ICMPv6 ICMPv6 Redirection DHCPv6 ACLv6 OSPFv3 RIPng BGP4+ Configured Tunnels ISATAP 6to4 Tunnels Dual stack of IPv6 and IPv4</p>
	Multicast	<p>IGMP v1/v2/v3 IGMP Proxy/Snooping IGMP Filter MVR and cross VLAN multicast copy PIM-SM / PIM-DM / PIM-SSM PIM-SMv6, PIM-DMv6, PIM-SSMv6 MLDv2/MLDv2 Snooping</p>
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 1+1 power hot backup</p>
Maintenance	Network Maintenance	<p>Port real-time, utilization and transmit/receive statistic based on Telnet RFC3176 sFlow analysis LLDP GPON OMCI RFC 3164 BSD syslog Protocol Ping and Traceroute</p>
	Device Management	<p>CLI, Console port, Telnet and WEB SNMPv1/v2/v3</p>

		RMON (Remote Monitoring) 1,2,3,9 groups MIB NTP NGBNView network management
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Purchase Information

Product name	Product description
GL5610-04P	4*PON, 4*GE COMBO ports, 2*10GE SFP+, double AC/DC power supply
GL5610-08P	8*PON, 4*GE COMBO ports, 2*10GE SFP+, double AC/DC power supply
GL5610-16P	16*PON, 4*GE COMBO ports, 2*10GE SFP+, double AC/DC power supply
NG01PWR100AC	power module, AC100~240V-100W
NG01PWR100DC	power module, DC-36~-72V-100W