

# GL5610 Series Smart Cassette GPON OLT

#### **Product Overview**

GL5610 is a small capacity and enhancement mode cassette GPON OLT, meeting the requirements of ITU-T G.984/G.988 and relative standards of China Telecom/Unicom GPON, possessing 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 capability, abundant service features and flexible network mode. GL5610 can be used with NGBNVIEW network management system so as to provide users with the perfect solution. GL5610 provides 8/16 \* downlink GPON port, 4 \*GE combo port and 2\* 10G SFP+ port. The height is only 1U for easy installation and space saving. GL5610 is suitable for Broadcast three in one, video surveillance network, enterprise LAN, Internet of Things, etc.

## GL5610-08P/ 16P



□ 1 RU19 inch
□ 1+1power redundancy
□ 8\*/ 16\* fixed GPON port
□ 4\*GE COMBO port, 2\*10GE SFP+ port
□ 1\*console port



## **Product Specification:**

Item	GL5610-08P/16P	
Switching Capacity	140Gbps	
Forwarding Capacity(Ipv4/Ipv6)	104MPPS	
Service Port	8*PON port(GL5610-08P)/16*PON port(GL5610-16P), 4*GE SFP, 4*GE COMBO port, 2*10GE SFP+ port	
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	≤110W	
Dimensions (Width x Depth x Height)	440mm×44mm×380mm	
Weight (Full-Loaded)	≤3kg	
Environmental Requirements	Working temperature: -10°C~55°C Storage temperature: -40°C~70°C Relative humidity: 10%~90%, non-condensing	

## **Product Features:**

Item		GL5610-08P/16P
		ITU-TG.984.x standard
		Maximum 20 Km PON transmission distance
		access 128 terminals for single fiber PON
PON Features		Uplink and downlink triple churning encrypted function with 128Bits
		ONU terminal legitimacy certification, report illegal ONU registration
		DBA algorithm, the particle is 1Kbit/s
		Standard OMCI management function
		ONU batch software upgrade, fixed time upgrade, real time upgrade
		PON port optical power detection
	MAC	MAC Black Hole
		Port MAC Limit
		64K MAC (packet exchange chip cache 2MB, external cache 720 MB )
L2 Features		4K VLAN entries
L2 realures	VLAN	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



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		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'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



Datasheet

		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
		ARP Proxy
		DHCP Relay
	IPv4	DHCP Server
		Static Routing
		RIPv1/v2
		OSPFv2
		BGPv4
		Equivalent Routing
		Routing Strategy
		ICMPv6
		ICMPv6 Redirection
		DHCPv6
		ACLv6
		OSPFv3
	IPv6	RIPng
		BGP4+
		Configured Tunnels
		ISATAP
		6to4 Tunnels
		Dual stack of IPv6 and IPv4
		IGMPv1/v2/v3
		IGMPv1/v2/v3 Snooping
		IGMP Filter
		MVR and cross VLAN multicast copy
	Multicast	IGMP Fast leave
		IGMP Proxy
		PIM-SM/PIM-DM/PIM-SSM
		PIM-SMv6, PIM-DMv6, PIM-SSMv6
		MLDv2/MLDv2 Snooping
	Loop	EAPS and GERP (recover-time <50ms)
	Protection	Loopback-detection
	Link Protection	FlexLink (recover-time <50ms)
Reliability		RSTP/MSTP (recover-time <1s)
		LACP (recover-time <10ms)
		BFD
	Device Protection	VRRP host backup
		1+1 power hot backup
	Network Maintenance	Port real-time, utilization and transmit/receive statistic based
Maintenance		on Telnet
		RFC3176 sFlow analysis
		LLDP



Datasheet

		GPON OMCI
		RFC 3164 BSD syslog Protocol
		Ping and Traceroute
		CLI, Console port, Telnet and WEB
		SNMPv1/v2/v3
	Device Management	RMON (Remote Monitoring)1,2,3,9 groups MIB
		NTP
	NGBNView network management	

## Purchase Information:

Product name	Product description
GL5610-08P	8*PON, 4*GE SFP, 4*GE COMBO port, 2*10GE SFP+, double AC/DC power supply
GL5610-16P	16*PON, 4*GE SFP, 4*GE COMBO, 2*10GE SFP+, double AC/DC power supply
NG01PWR180AC	power module for NG01PWR180AC-S5650/S6300/GL5600-08P
NG01PWR180DC	power module for NG01PWR180DC-S5650/S6300/GL5600-08P