

High-Performance Cabinet OLT



16 PON PORT GPON OLT



8 PON PORT GPON OLT

GL-G8608T/G86016T-ATG is designed for chassis OLT device which provides 8 /16 downlink 1000M PON ports, 4 uplink GE Combo ports, 2 uplink 10GE port by GL-COM. The height is only 1U for easy installation and space saving. Each PON supports up to 128 terminals, the whole device supports up to 1024/2048 ONUs under full configuration. G8608T /G8616T-ATG adopts advanced technology to support SLA and DBA to keep strong function on the Ethernet and QoS features. It 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.

Product Specification:

Attributes	GL-G8608T/G8616T-ATG
Switching capacity	102Gbps
Throughput (IPv4/IPv6)	75.88MPPS
Ports	8/16*PON port, 4*GE FX+4*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)	440mm×44mm×380mm
Weight (in maximum configuration)	≤3kg
Environmental	Working temperature: -15°C~55°C

requirements	Storage temperature: -40°C~70°C Relative humidity: 10%~90%, no condensing
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Business Features:

Attributes		GL-G8608T/G8616T-ATG
PON features	GPON	<p>Satisfy ITU -T standard</p> <p>TR-101 compliant solution for FTTx OLT applications</p> <p>High splitter rate, each PON port supports 128*ONU ,</p> <p>Maximum transmission distance of 20KM</p> <p>Support uplink FEC, downlink FEC(Forward Error Correction)</p> <p>ONU identifier authentication :SN /SN+PASSWD</p> <p>Bandwidth allocation mechanism</p> <p>5 types of T-CONT bandwidth</p> <p>Static Bandwidth Allocation</p> <p>Dynamic Bandwidth Allocation</p> <p>GPON feature parameter</p> <p>4096 port-IDs per GPON MAC (Downstream and Upstream)</p> <p>1024 Alloc -IDs per GPON MAC (Upstream)</p>
L2 features	MAC	<p>MAC Black Hole</p> <p>Port MAC Limit</p>
	VLAN	<p>4K VLAN entries</p> <p>Port-based/MAC-based/IP subnet-based VLAN</p> <p>Port-based QinQ and Selective QinQ (StackVLAN)</p> <p>VLAN Swap and VLAN Remark and VLAN Translate</p> <p>GVRP</p> <p>Based on ONU service flow VLAN add, delete, replace</p>
	Spanning tree protocol	<p>IEEE 802.1D Spanning Tree Protocol (STP)</p> <p>IEEE 802.1w Rapid Spanning Tree Protocol (RSTP)</p> <p>IEEE 802.1s Multiple Spanning Tree Protocol instances (MSTP)</p>
	Port	<p>Bi-directional bandwidth control</p> <p>Static link aggregation and LACP(Link Aggregation Control Protocol)</p> <p>Port mirroring and traffic mirroring</p>
Security features	User security	<p>Anti-ARP-spoofing</p> <p>Anti-ARP-flooding</p> <p>IP Source Guard create IP+VLAN+MAC+Port binding</p> <p>Port Isolation</p> <p>MAC address binds to port and port MAC address filtration</p> <p>IEEE 802.1x and AAA/Radius authentication</p> <p>TACACS+ authentication</p> <p>dhcp anti-attack flood attack automatic suppression</p>

		ONU isolation control
	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 MD5 cryptograph authentication
IP routing	IPv4	ARP Proxy、DHCP Relay、DHCP Server、Static route
	IPv6	ICMPv6、ICMPv6 redirection、DHCPv6、ACLv6、Configured Tunnel、6to4 tunnel IPv6 and IPv4 Tunnels
Service features	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 PIM-SM/PIM-DM/PIM-SSM PIM-SMv6、 PIM-DMv6、 PIM-SSMv6 MLDv2/MLDv2 Snooping
	MPLS	NPLS LDP
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 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)

Purchase Information:

Product name	Product description
GL-G8608T-ATG	Cassette OLT (8downlink 1000M PON ports, 4 uplink GE Combo ports,2 uplink 10GE ports)
GL-G8616T-ATG	Cassette OLT (16 downlink 1000M PON ports, 4 uplink GE Combo ports,2 uplink 10GE ports)

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