

High-Performance Cabinet OLT



16 PON PORT GPON OLT

GL-G86016T-ATG is designed for chassis OLT device which provides 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 2048 ONUs under full configuration. 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	G8616T-ATG
Switching capacity	102Gbps
Throughput (IPv4/IPv6)	75.88MPPS
Ports	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
	AC: Input 100~240V, 47~63Hz;
Power supply	DC: Input -36V \sim -75V;
Power consumption	≤85W
Outline dimensions (mm) (W*D*H)	440mm×44mm×380mm
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		G8616T-ATG
PON features	GPON	Satisfy ITU -T standard TR-101 compliant solution for FTTx OLT applications High splitter rate, each PON port supports 128*ONU , 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)
L2 features	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 (StackVLAN) VLAN Swap and VLAN Remark and VLAN Translate GVRP
	Spannin g tree protocol	Based on ONU service flow VLAN add, delete, replace IEEE 802.1D Spanning Tree Protocol (STP) IEEE 802.1w Rapid Spanning Tree Protocol (RSTP) IEEE 802.1s Multiple Spanning Tree Protocol instances (MSTP)
	Port	Bi-directional bandwidth control Static link aggregation and LACP(Link Aggregation Control Protocol) Port mirroring and traffic mirroring
Security features	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 TACACS+ authentification dhcp anti-attack flood attack automatic suppression ONU isolation control

		Anti-DOS attack(such as ARP, Synflood, Smurf, ICMP attack), ARP detection, worm and Msblaster worm attack
	Device	SSHv2 Secure Shell
	security	SNMP v3 encrypted management
		Security IP login through Telnet
		Hierarchical management and password protection of users
		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
	Network security	L2 to L7 ACL flow filtration mechanism on the 80 bytes of the head of user-defined packet
	security	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
	IPv4	ARP Proxy、DHCP Relay、DHCP Server、Static route
IP routing	IPv6	ICMPv6、ICMPv6 redirection、DHCPv6、ACLv6、Configured Tunnel、6to4 tunnel
		IPv6 and IPv4 Tunnels
	ACL	Standard and extended ACL
		Time Range ACL
Service features		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 \sim 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
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	Multicas t	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 protecti on	EAPS and GERP (recover-time <50ms) Loopback-detection
	Link protecti on	FlexLink (recover-time <50ms) RSTP/MSTP (recover-time <1s) LACP (recover-time <10ms) BFD
	Device protecti on	VRRP host backup Double fault-tolerant backup of host program and configuration files 1+1 power hot backup
Maintena nce	Network mainten ance	Telnet-based statistics RFC3176 sFlow、LLDP 802.3ah Ethernet OAM RFC 3164 BSD syslog Protocol Ping and Traceroute
	Device manage ment	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-G8616T-ATG	Cassette OLT (16 downlink 1000M PON ports, 4 uplink GE Combo ports,2
	uplink 10GE ports)

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