SOFTEL

SOFTEL 1U 19 Inch Rack GPON OLT

OLT-G4/OLT-G8

Product Overview

OLT-G4/OLT-G8 is a small-capacity cassette GPON OLT, meeting the requirements of *ITU-T G.984/G.988* and relative standards of *China Telecom/Unicom GPON*, 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 capability, abundant service features and flexible network mode.OLT-G4/OLT-G8 can be used with NGBNVIEW network management system so as to provide users with the comprehensive access and perfect solution.

OLT-G4/OLT-G8 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. OLT-G4/OLT-G8 is suitable for Broadcast *three in one*, video surveillance network, enterprise LAN, Internet of Things, etc.

OLT-G4

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

OLT-G8

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

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Product Specification:

Item	OLT-G4	OLT-G8
Switching Capacity	63Gbps	78Gbps
Forwarding Capacity(Ipv4/Ipv6)	50.592Mpps	65.472Mpps
Service Port	4*PON port, 4*GE COMBO port, 2*10GE SFP+ port	8*PON port, 4*GE COMBO port, 2*10GE SFP+ port
Redundancy Design	Dual power supply Support double AC input, double DC input and AC+DC input	
Power Supply	AC: input 90～264V 47/63Hz; DC: input -36V～-72V;	
Power Consumption	50W	
Dimensions (Width x Depth x Height)	437mm×44mm×280mm	
Weight (Full-Loaded)	≤5KG	
Environmental Requirements	Working temperature: -10°C～55°C Storage temperature: -40°C～70°C Relative humidity: 10%～90%, non-condensing	

Product Features:

Item		OLT-G4/OLT-G8-04P/08P
PON Features		ITU-TG.984.x; SN/Password/SN+Password/LOID/LOIDPassword/LOID+LOID Passwordauthentication modes; Terminal access up to 60km on a single fiber; 1:64 split ratio on single PON port, scalable to 1: 128 split ratio; DBA algorithm, and the particle is for 64Kbit/s; Standard OMCI management function; ONU batch software upgrade; PON port optical parameter detection;
L2 Features	MAC	MAC Black Hole; Port MAC Limit; 32K MAC (packet exchange chip cache 2MB);
	VLAN	4K VLAN entries; Port-based VLAN classification; Uplink static QinQ and flexible QinQ(Stack VLAN); Uplink VLAN Swap and VLAN Remark; GVRP;

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	Spanning Tree	STP/RSTP/MSTP; Remote loop detecting;
	Port	Bi-directional bandwidth control; Support static and LACP dynamic port aggregation; Port mirroring;
Security Features	User's Security	Anti-ARP-spoofing; Anti-ARP-flooding; IP Source Guard for creating 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	Support the control layer to prevent a variety of DOS attacks and virus attacks against the CPU; SSHv2 Secure Shell; SNMP v3 encrypted management; Login Security IP via 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 MD5cryptograph 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; CAR(Committed Access Rate),Traffic Shaping and flow statistics; Packet mirror and redirection of interface and self-defined flow; Supports priority marking of ports or custom flows and provides 802.1p, DSCP-priority Remark capability; Super queue scheduler based on port or self-defined flow. Each port/flow supports 8 priority queues and scheduler of SP, WRR andSP+WRR; Congestion Avoidance Mechanism, including Tail-Drop and WRED;

	IPv4	ARP Proxy; DHCP Relay; DHCP Server; Static Routing; RIPv1/v2; OSPFv2/V3; Equal-cost multi-path routing; Policy-based routing; Routing policy
	IPv6	ICMPv6; ICMPv6 Redirection; DHCPv6; ACLv6; IPv6 and IPv4 dual stack;
	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; MLDv2/MLDv2 Snooping;
Reliability	Loop Protection	ERRP or ERPS; Loopback-detection;
	Link Protection	FlexLink (recover-time <50ms); RSTP/MSTP (recover-time <1s); LACP (recover-time <10ms); BFD;
	Device Protection	VRRP host backup; 1+1 power hot backup;
Maintenance	Network Maintenance	Port real-time, utilization and transmit/receive statistic RFC3176 sFlow analysis; LLDP; GPON OMCI; Data Logging and RFC 3164 BSD syslog Protocol; Ping and Traceroute;
	Device Management	Console port, Telnet, SSH management; Out-band management; SNMPv1/v2/v3; RMON (Remote Monitoring)1,2,3,9 groups MIB; SNTP; NGBNView network management; Power Failure Alarm;

Purchase Information:

Item	Product Description
OLT-G4	4*PON port，4*GE COMBO port，2*10GE SFP+ port，double AC/DC power supply
OLT-G8	8*PON port，4*GE COMBO port，2*10GE SFP+ port，double AC/DC power supply
WR150AC	OLT-G4/OLT-G8,150W AC 220Vpower module
WR72DC	OLT-G4/OLT-G8, 72W DC -48V power module
FAN56A	OLT-G4/OLT-G8 hot-swappable fan module;

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