TEL: +86-755-81755526

FAX:+86-755-29806955



## **HSGQ GPON OLT G004**

## **Product Overview**

G004 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. G004 can be used with network management system so as to provide users with the comprehensive access and perfect solution.

G004 provides 4 \* downlink GPON port, 4\*GE RJ45, 2 \*GE SFP port and 2\* 10G SFP+ port. The height is only 1U for easy installation and space saving. G004 is suitable for Broadcast *three in one*, video surveillance network, enterprise LAN, Internet of Things, etc.



## **Product Specification:**

Item	HSGQ-G004		
Switching Capacity	67Gbps		
Forwarding Capacity(Ipv4/Ipv6)	53.16Mpps		
Service Port	4*PON port, 4*GE RJ45 port, 2*GE SFP port, 2*10GE SFP+ port		
Redundancy Design	Dual power supply can be choose Support AC+AC, DC+DC, AC+DC input		
Power Supply	AC: input 100~240V 50/60Hz		
Power Consumption	≤60W		
Dimensions (Width x Depth x Height)	Net: 440mm×44mm×380mm Package:520mm*460mm*140mm		
Weight (Full- Loaded)	Net: 4 pkg (Single At nower) Tolai, pkg (Single At nower)		
Environmental Requirements	Working temperature: -10°C~55°C  Storage temperature: -40°C~70°C  Relative humidity: 10%~90%, non-condensing		



Item		V1.0.0	
PON Features		ITU-T G.984.x/G.988; SN / LOID / LOID+LOID Password authentication modes; Terminal access up to 20km on a single fiber; 1: 128 split ratio on single PON port; DBA algorithm, and the particle is for 64Kbit/s; Standard OMCI management function; ONU batch software upgrade; PON port optical parameter detection; Auto registration ONU bound with default profile	
L2 Features	MAC	MAC Black Hole; Port MAC Limit; 64K MAC (packet exchange chip cache 2MB );	
	VLAN	4K VLAN entries; Port-based VLAN classification; Uplink VLAN Swap and VLAN Remark;	
	Spanning Tree	STP/RSTP/MSTP loop detection	
	Port	Support link aggregation; Port mirroring;	
	Service-Port	Auto configuration service-port by profile VLAN transparent/tag/stack/aggregation	
Security Features	User's Security	Anti-ARP-spoofing; Anti-ARP-flooding; Port Isolation; MAC address binding to the port and MAC address filtering;	
	Device Security	Support the control layer to prevent a variety of DOS attacks and virus attacks against the CPU; SSHv2 Secure Shell; 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; DHCP Option82 and PPPoE+ upload user's physical location	

Go Shenzhen HS	Fiber Communica	ation Equipment Co., Ltd	www.HSGQ.com
		Standard and extended ACL;	
		Time Range ACL;	
	ACL	Flow classification and flow definition based on source address, VLAN, 802.1p, ToS, DiffServ, source/destinat address, TCP/UDP port number, protocol type, etc;	
		packet filtration of L2~L7 deep to 80 bytes of IP pack	et head;
		Rate-limit to packet sending/receiving speed of port or provide general flow monitor and two-speed tri-color n flow;	nonitor of self-defined
		CAR(Committed Access Rate), Traffic Shaping and flo	
		Packet mirror and redirection of interface and self-defin	•
Service Features	QoS	Supports priority marking of ports or custom flows and DSCP-priority Remark capability;	provides 802.1p,
		Super queue scheduler based on port or self-defined flo supports 8 priority queues and scheduler of SP, WRR a	
		Congestion Avoidance Mechanism, including Tail-Dro	p and WRED;
		DHCP Relay;	
	IPv4	DHCP Server;	
	117 V4	DHCP Snooping;	
		Static Routing;	
	Multicast	IGMPv1/v2 Snooping;	
		IGMP Fast leave;	
		IGMP Proxy;	
		Compatible with IGMP v3	
	Loop Protection	Loopback detection;	
	Link	RSTP/MSTP (recover-time <1s);	
Reliability	Protection	Link aggregation (recover-time <10ms);	
	Device Protection	1+1 power hot backup;	
Maintenance	Network Maintenance	Port real-time, utilization and transmit/receive statistic Powerful WEB GUI GPON OMCI;	
		Data Logging and RFC 3164 BSD syslog protocol;	
		Ping diagnosis	
	Device Management	Console port, Telnet, SSH management; Out-band management; SNMPv1/v2 RMON (Remote Monitoring)1,2,3,9 groups MIB;	
		SNTP; Fan management	