



SHENZHEN HCK Technology Ltd.

GP5800 Series

Pizza Box GPON OLT with 10G SFP+ uplink

Product Overview


GP5800 is highly integrated, medium-capacity GPON OLT for operators, ISPs, enterprises and park applications. The GP5800 follows the ITU-T G.984/G.988 technical standard, and has good openness, strong compatibility, high reliability, and complete software functions. It can be widely used in operators' FTTH access, VPN, government and enterprise park access, campus network access, ETC.

GP5800 is only 1U in height, easy to install and maintain, and save space. Supports mixed networking of different types or brands of ONU, which can save a lot of costs for operators.

Key Features


- Rich Layer 2/3 switching features and Flexible management methods
- Support multiple link redundancy protocols such as FlexLink/STP/RSTP/MSTP/ERPS/LACP
- Support RIP、OSPF、BGP、ISIS and IPV6
- Safe DDOS and virus attack protection
- Support Power redundancy backup, Modular power supply
- Support power failure alarm
- Type C management interface

Product Interface



GP5800-04

- 4*GPON Port
- 4*10/100/1000M Base-T
- 4*1000M Base-X SFP/4*10GE SFP+
- 19" Rack-mount (440mm*44mm*260mm)



GP5800-08

- 8*GPON Port
- 4*10/100/1000M Base-T
- 4*1000M Base-X SFP/4*10GE SFP+
- 19" Rack-mount (440mm*44mm*260mm)



GP5800-16

- 16*GPON Port
- 8*10/100/1000M Base-T
- 4*1000M Base-X SFP/4*10GE SFP+
- 19" Rack-mount (440mm*44mm*320mm)

Hardware Specification

Attributes	GP5800-04	GP5800-08	GP5800-16
Interface	4*GPON Port, 4*10/100/1000M Base-T, 4*1000M Base-X SFP/4*10GE SFP+	8*GPON Port, 4*10/100/1000M Base-T, 4*1000M Base-X SFP/4*10GE SFP+	16*GPON Port, 8*10/100/1000M Base-T, 4*1000M Base-X SFP/4*10GE SFP+
Exchange Capacity	103Gbps	118Gbps	156Gbps
Forwarding Rate	76.632Mpps	87.792Mpps	116.064Mpps

Memory and Storage	DRAM: 2GB, Flash: 8GB		
Management Port	Console, MGMT	Console, Type C, MGMT	
PON	Comply with ITU-TG.984/G.988 standard 60KM transmission distance; 1:128 Max splitting ratio Standard OMCI management function Open to any brand of ONT ONU batch software upgrade		
Weight	3.5kg	5kg	6.5kg
Fan	Fixed fans (3 fans)		Fixed fans (4 fans)
Power	AC: 100 ~ 240V 47/63Hz; DC: 36V ~ 75V;		
Power Consumption	≤40W	≤55W	≤65W
Dimensions (W *D *H)	440mm*200mm*44mm	440mm*260mm*44mm	440mm*320mm*44mm
Environment Temperature	Working Temperature: -10°C ~ 55°C Storage temperature: -40°C ~ 70°C		
Environment Humidity	Operating humidity: 10% ~ 95% (non-condensing) Storage humidity: 10% ~ 95% (non-condensing)		
Environment Friendly	China RoHS, EEE		

Software Specification

Attributes	GP5800-04	GP5800-08	GP5800-16
VLAN	Support 4K VLAN Support VLAN based on port, MAC and protocol Support dual Tag VLAN, port-based static Q-in-Q and flexible Q-in-Q		
MAC	64K Mac address Support static MAC address setting Support black hole MAC address filtering Support port MAC address limit		
Ring Network Protocol	Support STP/RSTP/MSTP Support ERPS Ethernet ring network protection protocol Support Loopback-detection port loopback detection		
Port Control	Support two-way bandwidth control Support port storm suppression Support 9K Jumbo ultra-long frame forwarding		
Port Aggregation	Support static link aggregation Support dynamic LACP Each aggregation group supports a maximum of 8 ports		

Mirroring	Support port mirroring Support stream mirroring
ACL	Support standard and extended ACL Support ACL policy based on time period Provide flow classification and flow definition based on IP header information such as source/destination MAC address, VLAN, 802.1p, ToS, DSCP, source/destination IP address, L4 port number, protocol type, etc.
QoS	Support flow rate limiting function based on custom business flow Supports mirroring and redirection functions based on custom business flows Support priority marking based on custom service flow, support 802.1P, DSCP priority Remark capability Support port-based priority scheduling function, support queue scheduling algorithms such as SP/WRR/SP+WRR
Safety	Support user hierarchical management and password protection Support IEEE 802.1X authentication Support Radius&TACACS+ authentication Support MAC address learning limit, support black hole MAC function Support port isolation Support broadcast message rate suppression Support IP Source Guard Support ARP flood suppression and ARP spoofing protection Support DOS attack and virus attack protection
Layer 3 Routing	Support ARP learning and aging Support static route Support dynamic route RIP/OSPF/BGP/ISIS Support VRRP
System Management	CLI, Telnet, WEB, SNMP V1/V2/V3、SSH2.0 Support FTP, TFTP file upload and download Support RMON Support SNTP Support system work log Support LLDP neighbor device discovery protocol Support 802.3ah Ethernet OAM Support RFC 3164 Syslog Support Ping and Traceroute

Purchase Info

Model Number	Description
GP5800-04	4*PON port, 4*10GE/GE SFP + 4*GE RJ45, with AC/DC optional dual power
GP5800-08	8*PON port, 4*10GE/GE SFP + 4*GE RJ45, with AC/DC optional dual power
GP5800-16	16*PON port, 4*10GE/GE SFP + 8*GE RJ45, with AC/DC optional dual power

Solution Display

