

# HG5000 GPON OLT Series

## Datasheet

### Product overview:

HG5000 is highly integrated, medium-capacity GPON OLT for operators, ISPs, enterprises and park applications. The product follows the ITU-TG.984/G.988 technical standard, The product 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.

HG5000 is only 1U in height, easy to install and maintain, and save space. Supports mixed networking of different types of ONUs, which can save a lot of costs for operators.

**HG5008**



**HG5016**



## Main Feature

- 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 specifications

Attributes	HG5008	HG5016
Exchange capacity	104Gbps	
Packet forwarding rate	77.376Mpps	
Memory and storage	memory: 512MB, storage: 32MB	
Management port	Console, Type C	
Port	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+
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	
VLAN	Support 4K VLAN Support Vlan based on port, MAC and protocol Support dual Tag VLAN, port-based static QinQ and flexible QinQ	

MAC	16K 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	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
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
weight	HG5008 : ≤5kg HG5016 : ≤6.5kg
fan	Fixed fans (three fans)
power	AC: 100 ~ 240V 47/63Hz; DC: 36V ~ 75V;
Power consumption	HG5008: 65W HG5016 :100W
Dimensions (Width * height * depth)	HG5008: 440mm*44mm*260mm HG5016: 440mm*44mm*320mm

## Purchasing Information

Product name	Product description
GPON OLT 8PON	8*PON port, 4*10GE/GE SFP +4GE RJ45 uplink port, Dual power with optional
GPON OLT 16PON	16*PON port, 8*10GE/GE SFP +8GE RJ45 uplink port, Dual power with optional