

# HL-1GE

# HL-1GC

## 1-port GPON ONT Bridge or Router mode



### Product description

**GPON Optical Network Termination products are designed for operators and service providers who seek advantage from the expanded capacity of a fiber access network.**

**HL-1GE** is a GPON ONT that acts as GPON Demarcation Device and is designed to provide affordable access to FTTH networks for Business and Residential use. **HL-1GE** design allow for multi-interoperability with number of OLT vendors.

All products within the GPON family are compliant to current ITU-T standards for gigabit passive optical networks (GPONs). The solution is designed to optimize the deployment and roll-out of the service provider.

The products use a single fiber to connect individual homes and businesses to the network for broadband services up to gigabit speeds.

The flexible product design enables a variety of product features and available interfaces. All units have Layer 2 functionality by default. This includes advanced support for L2 VLAN's, L2 QoS and Multicast IGMP. **HL-1GE support modes as Bridge (SFU) and Router/NAT (HGU). Depend on the configuration of operator ONT can transparently bypass traffic or terminate as Router with NAT.**

The ONT/ONU products are tested and have proven interoperability with most major GPON OLT Vendors.

HL-1GE is equipped with B+ optics while HL-1GC used C+ optics.



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All specifications are subject to change without notice. The above product picture is a sample for reference and may vary. Please check with your supplier for exact offers.

## Hardware Specification

<b>Flash Memory</b>	16-32MB	<b>Storage Temp.</b>	-10~60°C
<b>WAN Port HL-1GE</b>	1 x GPON Port (SC/APC, BOSA) Class B+ Rx sensitivity -28dBm Rx overload -8dBm TX: +2.5dBm	<b>Operating Humidity</b>	5~90 % (non-condensing)
<b>WAN Port HL-1GC</b>	1 x GPON Port (SC/APC, BOSA) Class C+ Rx sensitivity -30dBm Rx overload -10dBm TX: +4.5dBm	<b>Power Voltage</b>	DC power jack, 12V/ 0.5 A
<b>WAN Port Speed</b>		<b>Power Consumption</b>	3 to 5 W
<b>LAN Port</b>		<b>Miscellaneous Interfaces</b>	ON/OFF Power Button Reset Button
<b>LED</b>	GPON: 2,5Gbps/1,25Gbps (DS/US)	<b>Dimension (W x H x D)</b>	93 mm x 93 mm x 25 mm
<b>Operating Temp.</b>	1 x port 10/100/1000BASE-T (RJ-45) Auto-sensing, auto-detection MDI/ MDI-X  POWER, GPON, LOS, LAN  -5 ~ 45°C		

## Software Specification

<b>GPON</b>	<ul style="list-style-type: none"> <li>• ITU-T G.984 Compliant (G.984.1, G.984.2, G.984.3, G.984.4)</li> <li>• ITU-T G.988 Compliant (OMCI Model)</li> <li>• Dying gasp</li> <li>• Dynamic Bandwidth Allocation</li> <li>• Downstream and upstream data Security (AES Encryption)</li> <li>• Forward Error Correction (FEC)</li> <li>• Support 32 T-CONTs and 256 GEM Port</li> <li>• BBF TR-156 Compliant</li> <li>• BBF 247 test compliant</li> </ul>	<b>Multicast</b>	<ul style="list-style-type: none"> <li>• IGMP Snooping</li> </ul>
<b>QoS</b>	<ul style="list-style-type: none"> <li>• Ingress / Egress Rate Limiting</li> <li>• Packet Classification based on COS, DSCP</li> </ul>	<b>L3</b>	<ul style="list-style-type: none"> <li>• IP HOST for remote management</li> <li>• PPPoE Client</li> <li>• 802.1q</li> <li>• DHCP Server/Client/Relay</li> <li>• NAT and PAT</li> <li>• DNS Relay</li> <li>• IGMP Proxy and Snooping</li> <li>• VPN Pass-through</li> <li>• SNMP</li> <li>• Port Forwarding</li> <li>• UPnP</li> <li>• Firewall</li> </ul>
		<b>L2</b>	<ul style="list-style-type: none"> <li>• IEEE 802.1D Bridging</li> <li>• IEEE 802.1Q and IEEE 802.1P compliant</li> <li>• VLAN Translation</li> <li>• VLAN Filter</li> <li>• Up to 10 VLANs</li> <li>• Access   Trunk   Native port</li> <li>• Storm-Control</li> <li>• QinQ (Transparent and begin/end of tunnel)</li> </ul>

## Interoperability Test Result

Nokia (ALU) ISAM FX-4	ZTE C320/C220
DASAN V8240/V810x/V58xx	FIBERHOME AN5116-06B
Huawei OLT (all OLT's)	Cisco/Altice ME4601

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