

# HL-1G GPON ONT Demarcation Device



## Product description

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**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-1G** 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-1G** 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.

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

HALNy specializes in cost-effective designs, and works closely with service providers to improve their business case through a comprehensive range of standard products, supporting the industry's common demands. HALNy also provides custom designs and services to meet unique customer needs.

The network interface is compliant to ITU-T G.984.5 to provide 2.5 Gb/s downstream and 1.25 Gb/s upstream. LAN interface allow to provide Gigabit service.

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.

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## Hardware Specification

<b>Flash Memory</b>	8MB	<b>Storage Temp.</b>	-40~70°C
<b>WAN Port</b>	1 x GPON Port (SC/APC, BOSA) Class B+ Rx sensitivity -28dBm Rx overload -8dBm	<b>Operating Humidity</b>	5~95 % (non-condensing)
<b>WAN Port Speed</b>	GPON: 2,5Gbps/1,25Gbps (DS/US)	<b>Power Voltage</b>	DC power jack, 12V/ 0.5 A
<b>LAN Port</b>	1 x port 10/100/1000BASE-T (RJ-45) Auto-sensing, auto-detection MDI/ MDI-X	<b>Power Consumption</b>	3 to 5 W
<b>LED</b>	POWER, GPON, LOS, LAN	<b>Miscellaneous Interfaces</b>	ON/OFF Power Button Reset Button
<b>Operating Temp.</b>	-5 ~ 45°C	<b>Dimension (W x H x D)</b>	125 mm x 90 mm x 37 mm

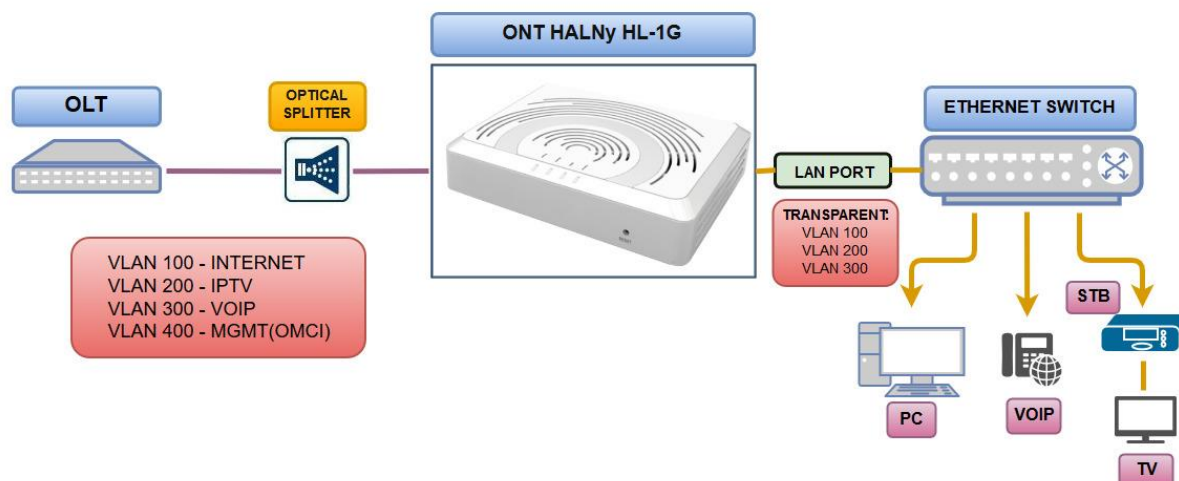
## Software Specification

<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> </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> </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 series MA56x3T	Cisco/AltiCe ME4601

## Sample scenario



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