HALNY
High Availability Local Networks

HL-1GE
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.

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.

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Hardware Specification

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

Software Specification

GPON	• ITU-T G.984 Compliant (G.984.1, G.984.2, G.984.3, G.984.4) • ITU-T G.988 Compliant (OMCI Model) • Dying gasp • Dynamic Bandwidth Allocation • Downstream and upstream data Security (AES Encryption) • Forward Error Correction (FEC) • Support 32 T-CONTS and 256 GEM Port • BBF TR-156 Compliant • BBF 247 test compliant	**Multicast**	• IGMP Snooping
		L3	• IP HOST for remote management • PPPoE Client • 802.1q • DHCP Server/Client/Relay • NAT and PAT • DNS Relay • IGMP Proxy and Snooping • VPN Pass-through • SNMP • Port Forwarding • UPnP • Firewall
QoS	• Ingress / Egress Rate Limiting • Packet Classification based on COS, DSCP	**L2**	• IEEE 802.1D Bridging • IEEE 802.1Q and IEEE 802.1P compliant • VLAN Translation • VLAN Filter • Up to 10 VLANs • Access | Trunk | Native port • Storm-Control • QinQ (Transparent and begin/end of tunnel)

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

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.