

HL-1G GPON ONT Demarcation Device



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-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

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

Software Specification

GPON	<ul style="list-style-type: none">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 gaspDynamic Bandwidth AllocationDownstream and upstream data Security (AES Encryption)Forward Error Correction (FEC)Support 32 T-CONTs and 256 GEM PortBBF TR-156 Compliant	Multicast	<ul style="list-style-type: none">IGMP Snooping
		L3	<ul style="list-style-type: none">IP HOST for remote management
		L2	<ul style="list-style-type: none">IEEE 802.1D BridgingIEEE 802.1Q and IEEE 802.1P compliantVLAN TranslationVLAN FilterUp to 10 VLANsAccess Trunk Native portStorm-ControlQinQ (Transparent and begin/end of tunnel)
QoS	<ul style="list-style-type: none">Ingress / Egress Rate LimitingPacket Classification based on COS, DSCP		

Interoperability Test Result

ALU/NOKIA	ISAM FX-16	
ALU/NOKIA	ISAM FX-4	
HUAWEI	MA5683T	MA5600V800R017C00
ZTE	C320	V2.1.0
ZTE	C220	V1.2.2
CISCO	ME4601	3.7.3
FIBERHOME	AN5116-06B	RP1000
	and other	

Sample scenario



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