



High Availability Local Networks

# HL-1GR

## GPON ONT

1x Gigabit LAN Port

1x RF/CATV Port

SFU and HGU support

Advanced VLAN operation



## Product Description

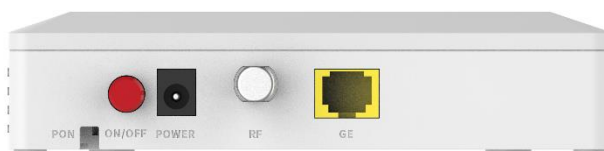
HALNy GPON Gateway are innovative and powerful product for business and residential subscribers.

All products within the GPON family comply with 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. HL-1GR design offers multi-interoperability with several OLT vendors. The ONT/ONU products are tested and have proven interoperability with most major GPON OLT Vendors.

**HALNy HL-1GR** provides one GPON port (SC/APC type), one Gigabit Ethernet port, and one RF port for CATV. ONT supports HGU (Home Gateway Unit – L3 / Router / NAT) and SFU mode (Single Family Unit) – bridge with advanced VLAN operation via OMCI.

**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.

**Housing can be sold with the Operator logo on the top cover.**



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. Actual data throughput and Wi-Fi coverage will vary from network conditions and environmental factors, including the volume of network traffic, building material and construction, and network overhead, resulting in lower actual data throughput and wireless coverage. Quoted network speeds and bandwidth based on current IEEE specifications. Actual performance may be affected by network and service provider factors, interface type, and other conditions.

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## Hardware Specification

<b>Flash / RAM</b>	128MB / 64MB	<b>Storage Temp.</b>	-20°C~70°C (-4F~158F)
<b>CPU</b>	Dual Core 1GHz	<b>Operating Temp.</b>	0°C~45°C (32F~113F)
<b>WAN Port</b>	GPON B+ SC/APC 2.488Gbps Downstream 1.244Gbps Upstream	<b>Operating Humidity</b>	5% ~ 95% (non-condensing)
<b>GPON Tx</b>	0.5 ~ 5 dBm	<b>Power Supply</b>	DC +12V / 1.0A
<b>GPON Rx</b>	-10 ~ -27 dBm	<b>Buttons</b>	ON/OFF Power, Reset
<b>LAN Port</b>	1 x port 10/100/1000BASE-T (RJ-45) Auto-sensing, auto-detection MDI/ MDI-X	<b>Dimension (W x D x H)</b>	145 x 98 x 33mm
<b>LED</b>	POWER, PON, LOS, CATV, LAN	<b>RF/CATV</b>	F-connector Port (45~863Mhz) RF Output > 78dBuV

## Software Specification

<b>GPON</b>	ITU-T G.984.x and G.988 OMCI G.984.4 / G.988 AES / FEC / DBA Dying GASP Multicast GEM	<b>L3 (HGU Mode)</b>	Router / NAT / PAT PPPoE / DHCP Client Static IP DHCP Server IGMP Proxy VPN Pass-through UPnP DMZ / Port Forwarding IPv4 / IPv6 IPv6 Dual Stack IPv6 DS-Lite IPv6 Firewall RFC-6092
<b>L2</b>	802.1D Bridge VLAN 802.1Q with 802.1p CoS IGMP Snooping v1/v2/v3 Jumbo Frame 2K Rate-Limit (Traffic Limitation) Bridge filter Roque DHCP Server filter	<b>Provisioning</b>	Easy-to-use provisioning for all ONT configuration  DOCSIS like provisioning over GPON/EPON TR-069 OMCI OTT Upgrade DHCP 66/67 XML RestAPI / JSON
<b>VLAN (SFU Mode)</b>	Advanced VLAN operation: (access, transparent, transla- tion, QinQ, Selective QinQ, Hybrid)		
<b>Management</b>	WEB (two user accounts) Remote Syslog OMCI		

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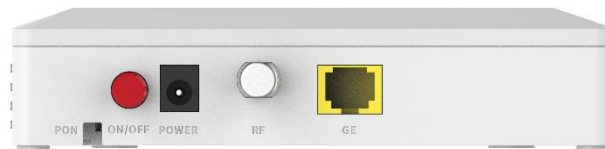
## Interoperability Test Result

<b>NOKIA</b> (Alcatel-Lucent)	<b>Cisco/AltiCe</b>
<b>DZS</b>	<b>FIBERHOME</b>
<b>ZTE</b>	<b>RAISECOM</b>
<b>HUAWEI</b>	<b>ZYXEL</b>
<b>CALIX</b>	<b>ZHONE</b>
<b>ADTRAN</b>	<b>ISKRATEL</b>

## Ordering Information

<b>HL-1GR / HL-1GR-EU</b>	HALNY NETWORKS GPON ONT 1-PORT LAN 10/100/1000, 1-PORT RF(CATV), B+ SC/APC, Router/Bridge, with European Power Adapter
<b>HL-1GR-US</b>	HALNY NETWORKS GPON ONT 1-PORT LAN 10/100/1000, 1-PORT RF(CATV), B+ SC/APC, Router/Bridge, with North America Power Adapter
<b>HL-1GR-UK</b>	HALNY NETWORKS GPON ONT 1-PORT LAN 10/100/1000, 1-PORT RF(CATV), B+ SC/APC, Router/Bridge, with United Kingdom Power Adapter
<b>HL-1GR-NOPS</b>	HALNY NETWORKS GPON ONT 1-PORT LAN 10/100/1000, 1-PORT RF(CATV), B+ SC/APC, Router/Bridge, without Power Adapter

Please **contact sales** for detailed order information



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