HALNY
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.

DEVELOPED
IN POLAND





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.

www.halny.com

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Hardware Specification

Flash / RAM	128MB / 64MB
CPU	Dual Core 1GHz
WAN Port	GPON B+ SC/APC 2.488Gbps Downstream 1.244Gbps Upstream
GPON Tx	0.5 ~ 5 dBm
GPON Rx	-10 ~ -27 dBm
LAN Port	1 x port 10/100/1000BASE-T (RJ-45) Auto-sensing, auto-detection MDI/ MDI-X
LED	POWER, PON, LOS, CATV, LAN

Storage Temp.	-20℃~70℃ (-4F~158F)
Operating Temp.	0℃~45℃ (32F~113F)
Operating Humidity	5% ~ 95% (non-condensing)
Power Supply	DC +12V / 1.0A
Buttons	ON/OFF Power, Reset
Dimension (W x D x H)	145 x 98 x 33mm
RF/CATV	F-connector Port (45~863Mhz) RF Output > 78dBuV

Software Specification

GPON	ITU-T G.984.x and G.988 OMCI G.984.4 / G.988 AES / FEC / DBA Dying GASP Multicast GEM
L2	802.1D Bridge VLAN 802.1Q with 802.1p CoS IGMP Snooping v/1v2/v3 Jumbo Frame 2K Rate-Limit (Traffic Limitation) Bridge filter Roque DHCP Server filter
VLAN (SFU Mode)	Advanced VLAN operation: (access, transparent, transla-tion, QinQ, Selective QinQ, Hybrid)
Management	WEB (two user accounts) Remote Syslog OMCI

L3 (HGU Mode)	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
Provisioning	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

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Interoperability Test Result

NOKIA (Alcatel-Lucent)	**Cisco/Altice**
DZS	**FIBERHOME**
ZTE	**RAISECOM**
HUAWEI	**ZYXEL**
CALIX	**ZHONE**
ADTRAN	**ISKRATEL**

Ordering Information

HL-1GR / HL-1GR-EU	HALNY NETWORKS GPON ONT 1-PORT LAN 10/100/1000, 1-PORT RF(CATV), B+ SC/APC, Router/Bridge, with European Power Adapter
HL-1GR-US	HALNY NETWORKS GPON ONT 1-PORT LAN 10/100/1000, 1-PORT RF(CATV), B+ SC/APC, Router/Bridge, with North America Power Adapter
HL-1GR-UK	HALNY NETWORKS GPON ONT 1-PORT LAN 10/100/1000, 1-PORT RF(CATV), B+ SC/APC, Router/Bridge, with United Kingdom Power Adapter
HL-1GR-NOPS	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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