HALNY
High Availability Local Networks

HL-4GX3VR

GPON Wireless Router
4x Gigabit LAN Port
Wi-Fi6 AX3000
With VoIP
With CATV Overlay



Product Description

HALNy GPON Gateway is an 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-4GX3VR** design offers multi-interoperability with several OLT vendors. The ONT/ONU products are tested and have proven interoperability with most major GPON OLT Vendors.

The solution is designed to optimize the deployment and roll-out of the service provider. This includes interoperability GPON ONT with advanced support for L2 VLANs and Multicast IGMP, L3 Routing with NAT, PPPoE, and easy-to-use Provisioning.

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.

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Hardware Specification

Flash / RAM	256MB / 512MB
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	4 x port 10/100/1000BASE-T (RJ-45) Auto-sensing, auto-detection MDI/ MDI-X
TEL Port	1 x FXS, RJ11
RF Port	Bandwidth 45 ~ 863Mhz Output LeveL=> 78dBuV
WIFI	2T3R AX3000 2.4GHz & 5GHz MU-MIMO External antennas

Storage Temp.	-10℃~60℃ (14°F~140°F)
Operating Temp.	0℃~45℃ (32°F~113°F)
Operating Humidity	10% ~ 90% (non-condensing)
Power Supply	DC +12V / 1.5A
Buttons	ON/OFF Power, WIFI, WPS, Reset
Dimension (W x D x H)	210 x 150 x 36mm
Operating Frequencies	802.11b/g/n/ax: 2401-2484 MHz 802.11a/n/ac/ax: 5170-5835 MHz
Maximum power of the transmitter	2.4 GHz: up to 20 dBm 5 GHz: up to 23 dBm Transmit power control
LED	POWER, PON, LOS, NET, WLAN 2.4G, WLAN 5G, LAN1-4, TEL, CATV, WPS

Frequency Band

2.4GHz

2412MHz – 2472MHz
2422MHz – 2462MHz
Transmit Power: 0.0589W
Modulation: DSSS/OFDM
Channel Width: 20/40MHz

5GHz

5180MHz – 5240MHz
5260MHz – 5320MHz
5500MHz – 5700MHz
Modulation: OFDM/BPSK/QPSK/16-QAM/64-QAM/, 256-QAM, 1024-QAM
Transmit Power: 0.0769W
Channel Width: 20/40/80/160MHz

5745MHz – 5825MHz
5755MHz – 5795MHz
Modulation: OFDM/BPSK/QPSK/16-QAM/64-QAM/ 256-QAM, 1024-QAM
Transmit Power: 0.0225W
Channel Width: 20/40/80/160MHz

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Software Specification

GPON	ITU-T G.984.x and G.988 OMCI G.984.4 / G.988 AES / FEC / DBA Dying GASP Multicast GEM
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
EasyMesh	Controller and Agent

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 WAN bridge
Telephony	SIP, DTMF, Dial Plan
Management	WEB (two user accounts) Remote Syslog, OMCI

Interoperability Test Result

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

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Ordering Information

HL-4GX3VR / HL-4GX3VR-EU	HALNY NETWORKS GPON ONT 4-PORT LAN 10/100/1000, 1-PORT RF(CATV), B+ SC/APC, WIFI B/G/N/AC/AX 2.4GHZ/5GHZ AX:2X3, 1XPOTS, Router/Bridge, with European Power Adapter
HL-4GX3VR-US	HALNY NETWORKS GPON ONT 4-PORT LAN 10/100/1000, 1-PORT RF(CATV), B+ SC/APC, WIFI B/G/N/AC/AX 2.4GHZ/5GHZ AX:2X3, 1XPOTS, Router/Bridge, with North America Power Adapter
HL-4GX3VR-UK	HALNY NETWORKS GPON ONT 4-PORT LAN 10/100/1000, 1-PORT RF(CATV), B+ SC/APC, WIFI B/G/N/AC/AX 2.4GHZ/5GHZ AX:2X3, 1XPOTS, Router/Bridge, with United Kingdom Power Adapter
HL-4GX3VR-NOPS	HALNY NETWORKS GPON ONT 4-PORT LAN 10/100/1000, 1-PORT RF(CATV), B+ SC/APC, WIFI B/G/N/AC/AX 2.4GHZ/5GHZ AX:2X3, 1XPOTS, Router/Bridge, without Power Adapter

Please **contact sales** for detailed order information



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