### HL-4GMV GPON ONT WIFI N/AC ROUTER



#### **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-4GMV** is a GPON ONT that acts as GPON Home Gateway Unit and is designed to provide affordable access to FTTH networks. The products use a single fiber to connect individual homes and businesses to the network for broadband services up to gigabit speeds.

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. **HL-4GMV** design allow for multi-interoperability with number of OLT vendors. The ONT/ONU products are tested and have proven interoperability with most major GPON OLT Vendors.

**HALNy HL-4GMV** provides one GPON port, four Gigabit Ethernet ports, Dual-Band (2.4G and 5G) Wireless interface with two external antennas and two Voice FXS ports. This gives possibility to support full triple play services for high speed Internet access, IPTV and voice.

The flexible product design enables a variety of product features and available interfaces. All units have Layer 3 and Layer 2 support.

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.

Actual data throughput and WiFi coverage will vary from network conditions and environmental factors, including the volume of network traffic, building material and construction, and network overhead, result 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 Memory   | 128MB (SPI NAND)  | LED                         | POWER, PON, LOS, Internet, 2.4G, 5G WPS, LAN1, LAN2, LAN3, LAN4, Phone1, Phone2 |
|----------------|---|-----------------------------|---|
| RAM            | 128MB (DDR3)  | o // T                      |   |
| WAN Port       | 1 x CPON Port (SC/APC_BOSA) Class B+  | Operating Temp.             | 0 ~ 45℃ (32 ~ 113°F)  |
|                | Rx sensivity -28dBm<br>Rx overload -8dBm                                      | Storage Temp.               | -20~70°C (-4 ~ 158°F)   |
|                |   | <b>Operating Humidity</b>   | 10~90 % (non-condensing)  |
| WAN Port Speed | GPON: 2,5Gbps/1,25Gbps (DS/US)  |                             |   |
|                |   | Power Voltage               | DC power jack, 12V/ 1.5 A   |
| LAN Port       | 4 x port 10/100/1000BASE-1 (RJ-45)<br>Auto-sensing, auto-detection MDI/ MDI-X | Power<br>Consumption        | 12 W  |
| VOICE          | 2 x RJ11 FXS Port   |                             |   |
| WLAN           | 2.4G 802.11n (2T2R MIMO) 300Mbps<br>5G 802.11ac (2T2R MIMO) 867Mbps           | Miscellaneous<br>Interfaces | ON/OFF Power Button<br>Reset Button<br>WPS Button                               |
|                |   | Dimension<br>(W x H x D)    | 200 mm x 138 mm x 38 mm   |

#### **Software Specification**

| GPON              | <ul> <li>ITU-T G.984 Compliant (G.984.1,<br/>G.984.2, G.984.3, G.984.4)</li> <li>ITU-T G.988 Compliant (OMCI Model)</li> <li>Dying gasp</li> <li>Dynamic Bandwidth Allocation</li> <li>Downstream and upstream data Security<br/>(AES Encryption)</li> <li>Forward Error Correction (FEC)</li> <li>Support 32 T-CONTS and 256 GEM Port</li> <li>BBF TR-156 Compliant</li> </ul> | Management | <ul> <li>IP HOST for remote management (OLT)</li> <li>PING/TRACERT</li> <li>System LOG</li> <li>WEB</li> <li>XML Provisioning</li> <li>IEEE 802.1D Bridging</li> <li>IEEE 802.1Q and IEEE 802.1P compliant</li> <li>VLAN Filter</li> <li>Up to 10 VLANs</li> <li>Access   Trunk   Native port</li> </ul> |
|-------------------|---|------------|--|
| BASIC<br>ADVANCED | <ul> <li>IPv4, IPv6, DHCP, DNS, NAT, PPPoE</li> <li>IPv6 Prefix Delegation</li> <li>DS-Lite</li> <li>Router / Bridge WAN</li> <li>Port forwarding / triggering, DMZ, ALG,</li> <li>UPnP, MAC/IP/URL/Port Filtering</li> </ul>   | WLAN       | <ul> <li>Ports / SSID Isolation</li> <li>IEEE 802.11bgn &amp; 11ac</li> <li>2.4GHz (300Mbps – 40MHz)</li> <li>5Ghz (867Mbps – 80MHz)</li> <li>WEP, WPA/WPA2 Personal, RADIUS</li> <li>Antenna Gain 2 x 5dBi External</li> <li>4 x SSID per band</li> </ul>   |
| Multicast         | <ul><li>IPv4/IPv6 Firewall</li><li>IGMP Snooping v1/v2</li></ul>  | VOIP       | <ul> <li>SIP, H.248, SDP, RTP</li> <li>G.723, G.711-A/U, G.722, G.726</li> <li>FAX T-38</li> <li>DTMF In-Band, Out-of-Band, SIP INFO</li> <li>RING Voltage 55V RMS</li> </ul>  |

#### **Interoperability Test Result**

| DASAN ZHONE Solutions |  |
|-----------------------|--|
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1.12 #0105 2.02 #0048

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V5824G

V8102

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#### Sample scenario



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