



# iGATE GW120-H

## GPON ONT

**iGate GW120-H** is a 2-ports ONT Gigabit Ethernet device that supports IEEE 802.11a/b/g/n/ac and 1 voice port which support VoIP. The device uses 2.4GHz and 5GHz dual band Wi-Fi, providing high-speed connectivity for connected devices.

It fully meets GPON ITU-T G.984 and is OLT vendor independent. The product is optimized for using in household or small offices.

**iGate GW120-H** is a part of GPON total solution which is developed by VNPT Technology, included: ONT, OLT and ONE Telco Platform management.

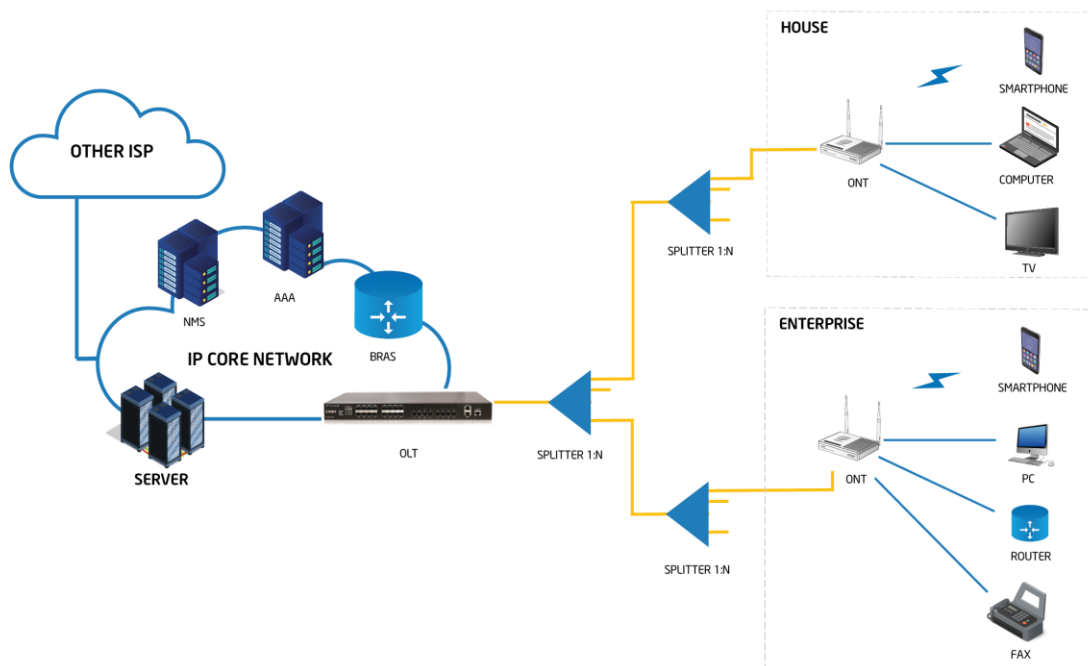


## PRODUCT HIGHLIGHTS

- 2-ports LAN 1Gbps
- 1 phone ports integrated that enable cost-effective VoIP calling
- Wi-Fi Dual-band 802.11a/b/g/n/ac
- Management by ONE Telco Platform
- OLT vendor independent

## TYPICAL DEPLOYMENT MODELS

iGate GW120-H is suitable to deploy FTTx GPON such as FTTH, FTTB, FTTC, FTTN which is provided Internet, Voice over IP (VoIP), Video services to the enterprise end-user (SOHO).



## FEATURES

### GPON

- Compliant with ITU standards:
  - ITU-T G.984.3
  - ITU-T G.984.4
- 8 queues per T-CONT
- Physical Layer OAM(PLOAM) and OMCI

- Deactivation/Activation and re-register of the ONT

### Wi-Fi

- Wi-Fi 802.11ac speed up to 867 Mbps makes it ideal for bandwidth-intensive or interruption sensitive applications like online gaming,

Internet calls and even the HD video streaming

- Wi-Fi enable/disable is simpler with Wi-Fi ON/OFF button

## Ethernet

- 10/100/1000BASE-T interface
- Auto-negotiation of rate and duplex mode
- Ethernet port auto-negotiation or manual configuration with media dependent interface crossover (MDI/MDIX)
- MAC Address Learning
- VLAN tagging/detagging per Ethernet port and marking/remarking of 802.1p
- VLAN stacking (Q-in-Q) and VLAN translation
- Support IGMPv2/v3 snooping

## VoIP

- SIP (RFC3261) compliant
- DTMF and pulse number receiving

- DTMF encryption algorithm (RFC2833)
- Support in-band DTMF tone sending/receiving and out-band DTMF signaling with RTP
- G.711 a/u, G.729 CODEC, and G.722 coding/encoding algorithm
- Voice Activity Detectors (VAD) and Comfort Noise Generation (CNG)
- ITU-T T.38 fax, and T.30 fax transparent transmission (uncontrolled, RTCP control, and SS control)
- Supplementary services: caller ID display, call waiting, call forwarding.

## Security

- NAT and SPI Firewall
- MAC / IP / Packet / Application / URL Filtering
- Denial of Service (DoS), SYN Flooding
- Firmware digital signature

## Software

- System information: Software version, Connection Status and Packet Statistics
- WAN connection type: Support PPPoE, Dynamic and Static IPoE, Bridge mode and Multi Wan connection simultaneously, Internet Protocol and Advanced Features: Support IPv4 and IPv6, DHCP (Dynamic Host Configuration Protocol), DHCP relay, DHCPv6, NAT (Network Address Translation), DLNA Server, USB Storage, Printer Server, Static Routing, VPN (PPTP, L2TP, IPSec) Pass through, Interface Grouping, VLAN tag/untag on Ethernet Port, DNS Relay, DDNS, IGMP snooping v2/v3
- Virtual server, DMZ, ACL (Access Control List), UPnP, NAT and SPI Firewall, MAC / IP / URL Filtering,

Denial of Service (DoS), QoS, (802.1p), Support 32 T-CONT/256 GEM

## OMCI

- OMCI configuration management (including the GEM port, T-CONT and VLAN configurations)
- OMCI query management (including the device information and Ethernet port status)
- OMCI alarming

## Device Maintenance

- Local service configuration, and software upgrade on the Web page
- Device management, and software upgrade through OMCI
- Query of the information about the ONT optical transceiver
- Reporting the Dying\_Gasp alarm when the ONT is powered off

## TECHNICAL SPECIFICATIONS

### Interface

- LAN 2 x 10/100/1000 Base-T
- Optical 1x SC/APC
- USB 1x USB 2.0
- Voice 1 x RJ11

### GPON

- Downlink speed 2.488 Gbps
- Uplink speed 1.244 Gbps
- Optical class Laser Class B+
- Receive (Rx) 1490 nm
- Transmit (Tx) 1310 nm
- Tx Power 0.5dBm ÷ 5dBm
- Rx Sensitivity -28dBm ÷ 8dBm

### Wi-Fi

- Standard IEEE 802.11 a/b/g/n/ac
- Frequency Band 2.4GHz:  
2.400GHz ÷ 2.4835GHz,  
OBW = 20/40Mhz, Auto  
Channel Selection  
Band 5GHz:  
5170GHz ÷ 5.815GHz,  
OBW = 20/40/80Mhz,  
Auto Channel Selection

- SSID 8 SSID, 4 per 2.4Ghz and 4 per 5GHz
- Security 64 / 128 bit WEP, WPA/ WPA2, WPA-PSK / WPA2-PSK encrypted security, Wireless MAC Filtering, Hidden SSID, WPS
- Antenna 5dBi, MU MIMO 2x2
- Throughput up to 867 Mbps
- CCU 32 CCUs on each band 2.4GHz & 5GHz




### Power

- Power Supply 12V-2A, feed through an external AC/DC adapter
- Power Consumption < 8W

### Others

- Dimension 191 x 35 x 157 mm
- Weight ~ 300g
- Operating Temperature 0°C ÷ 40°C
- Operating Humidity 5% ÷ 90% non-condensing

## CUSTOMER CARE & TECHNICAL SUPPORT CENTRE

-  **Address:** 1st floor, VNPT Technology Building, No. 124, Hoang Quoc Viet Str., Cau Giay Dist., Hanoi, Vietnam
-  **Telephone:** +84.24.3750.6666 (24/7)
-  **Email:** [support@vnpt-technology.vn](mailto:support@vnpt-technology.vn)