iGATE GW040-H

GPON ONT

iGate GW040-H is a 4-ports ONT Gigabit Ethernet device that supports IEEE 802.11a/b/g/n/ac. 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 GW040-H is a part of GPON total solution which is developed by VNPT Technology, included: ONT, OLT and ONE Telco Platform management management.
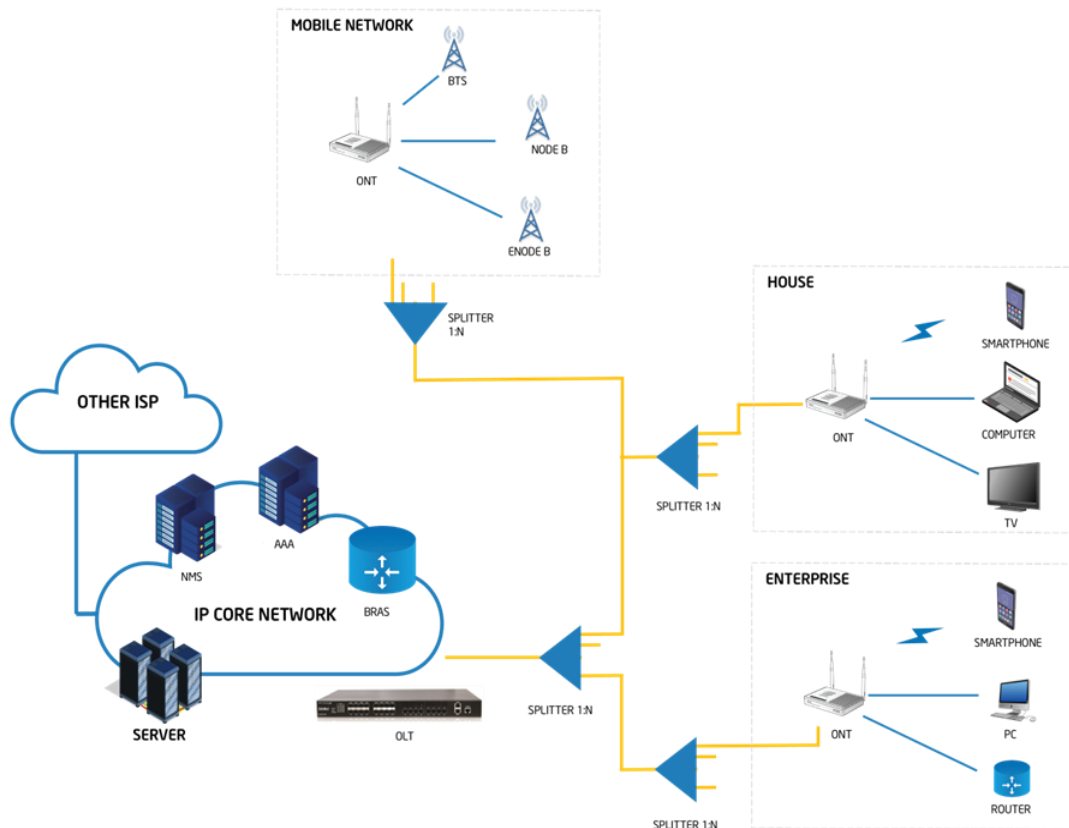

PRODUCT HIGHLIGHTS

- 4-ports LAN 1Gbps

- Wi-Fi Dual-band 802.11a/b/g/n/ac

- Management by ONE Telco Platform

- OLT vendor independent

TYPICAL DEPLOYMENT MODELS

iGate GW040-H is suitable to deploy FTTx GPON to provide Internet, Video services to the end-user (SOHO).

FEATURES

GPON

- Compliant with ITU standards:

    - ITU-T G.984.4

    - ITU-T G.984.3

- 08 queues per T-CONT

- Physical Layer OAM(PLOAM) and OMCI

- Deactivation/Activation and re-register of the ONT

Ethernet

- 10/100/1000BASE-T interfaces

- 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 tag/untag per Ethernet port and marking/ remarking of 802.1p

- VLAN stacking (Q-in-Q) and VLAN translation

- Support IGMPv2/v3 snooping

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, DHCP relay, DHCPv6, NAT, 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, UPnP, NAT and SPI Firewall, MAC / IP / URL Filtering, Denial of Service (DoS), QoS, (802.1p), Support 32 T-CONT/256 GEM

Security

- MAC / IP / Packet / Application / URL Filtering

- NAT and SPI Firewall

- Denial of Service (DoS), SYN Flooding

- Firmware digital signature

Wi-Fi

- Wi-Fi 802.11a/b/g/n/ac speed up to 1.2Gbps 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

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   4x 10/100/1000Base-T
- Optical   1x SC/APC
- USB   1x USB 3.0

Wi-Fi

- Standard   IEEE 802.11a/b/g/n/ac
- Frequency   Band 2.4GHz:
                     2.400 - 2.4835GHz,
                     OBW = 20/ 40Mhz, Auto
                     Channel Selection
                     Band 5GHz:
                     5170 - 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 1.2Gbps
- CCU   32 CCUs on each band
                     2.4GHz & 5GHz

GPON

- Downlink speed   2.488Gbps
- Uplink speed   1.244Gbps

- Optical class   Laser Class B+
- Receive (Rx)   1490nm
- Transmit (Tx)   1310nm
- Tx Power   0.5dBm $\div$ 5dBm
- Rx Sensitivity   -28dBm $\div$ 8dBm

Power

- Power supply   12V-1.5A, feed through an external AC/DC adapter

- Power Consumption   < 8W

Other

- Dimension   225 x 38 x 140mm
- Weight   ~ 400g
- Operating Humidity   5% $\div$ 90% Non- condensing
- Operating Temperature   0°C $\div$ 40°C

CUSTOMER CARE & TECHNICAL SUPPORT CENTRE

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