iGATE GW240

GPON ONT

iGate GW240 is a 4-ports ONT Gigabit Ethernet device that supports IEEE 802.11b/g/n and 2 voice ports which support VoIP . The device uses 2.4GHz providing high-speed connectivity for connected devices.

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

iGate GW240 is a part of GPON total solution which is developed by VNPT Technology, included: ONT, OLT and ONE Telco Platform management.
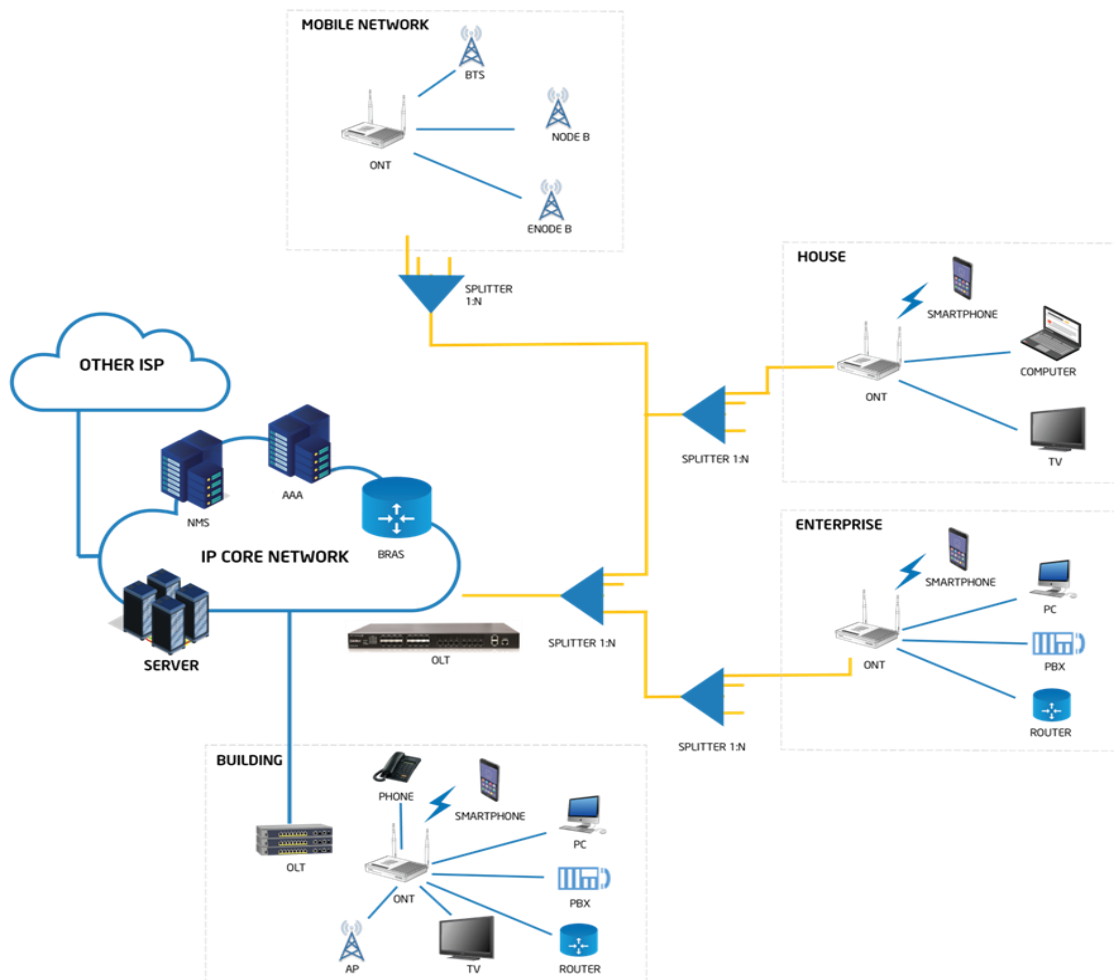

PRODUCT HIGHLIGHTS

- 4-ports LAN 1Gbps

- Wi-Fi 802.11 b/g/n

- 2 phone ports integrated that enable cost-effective VoIP calling

- Various call features such as: caller ID, call waiting, call holding, call forwarding and 3-way conference calls

- OLT vendor independent

TYPICAL DEPLOYMENT MODELS

iGate GW240 is suitable to deploy FTTx GPON, which is provided Internet, VoIP and Video services to the end-user (SOHO).

FEATURES

GPON

- Compliant with ITU standards:

  - ITU-T G.984.4

  - ITU-T G.984.3

- 8 queues per T-CONT, 8T-CONT/ 128GEM

- 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 tagging/detagging 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: 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)

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

- MAC / IP / Packet / Application / URL Filtering

- NAT and SPI Firewall

- Denial of Service (DoS)

Wi-Fi

- Wi-Fi 802.11n speed up to 300 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

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 USB2.0
- Voice   2x RJ11

Wi-Fi

- Standard   IEEE 802.11 b/g/n
- Frequency   Band 2.4GHz: 2.400 - 2.4835GHz, OBW = 20/ 40Mhz, Auto Channel Selection
- SSID   4 SSID, each service per SSID
- Security   Supports 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 300 Mbps
- CCU   30 CCUs

GPON

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

Power

- Power supply   12V-1.5A, feed through an external AC/DC adapter
- Power consumption   < 8W

Other

- Dimension   225x38x140mm
- Weight   ~ 325g
- Operating Humidity 5% ÷ 90% Non- condensing
- Operating Temperature   0°C ÷ 40°C

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