



iGATE GW041

GPON ONT

iGate GW041 is a 4-ports ONT Gigabit Ethernet device that supports IEEE 802.11b/g/n, integrated with RF CATV service. 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 use in household or small offices.

iGate GW041 is a part in GPON total solution, which is developed by VNPT Technology, included: ONT, OLT and ONE Telco Platform management.

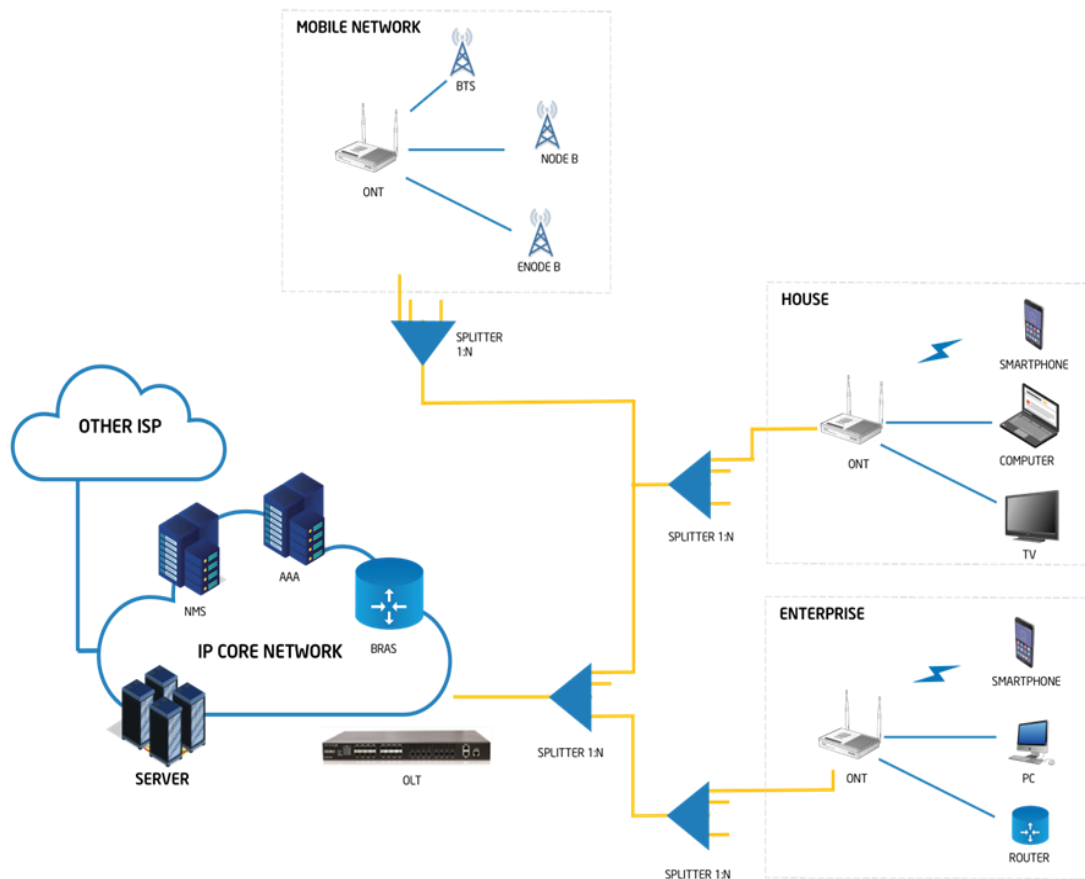


PRODUCT HIGHLIGHTS

- 4-ports LAN 1Gbps
- Wi-Fi 802.11 b/g/n
- RF CATV integrated, support IPTV Set-top-box
- OLT vendor independent
- Management by ONE Telco Platform

TYPICAL DEPLOYMENT MODELS

iGate GW041 is suitable to deploy GPON (such as FTTH, FTTB), Internet, Video, CATV services provided to the end-user.



FEATURES

GPON

- Compliant with ITU standards:
 - ITU-T G.984.4
 - ITU-T G.984.3
- Flexible mapping between GEM port and T-CONT
- Priority level queuing and scheduling of the upstream traffic
- Upstream traffic classification based on VLAN ID and 802.1p
- 05 types of T-CONT
- Physical Layer OAM(PLOAM) and

OMCI

- Auto-restart and recovery after power supply failure

Ethernet

- 10/100/1000BASE-T interface with RJ-45 connector
- MAC address binding to a user port. Only controls the input side of the port
- IEEE 802.1q VLAN with the VLAN ID from 1 to 4094 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

Layer 3

- Data forwarding and routing
- Address management
- PPPoE Client/Pass Through

Security

- MAC / IP / Packet / Application / URL

Filtering

- NAT and SPI Firewall
- Denial of Service (DoS), SYN Flooding

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 configuration 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

RF CATV

- Support optical AGC function
- Support both analog and DVB TV signals transmission

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 2.0
- CATV 1x RF CATV 75Ω

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

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 300Mbps

- CCU 30 CCUs

Power

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

- Power consumption < 8W

CATV

- Wavelength 1550nm
- Input Optical -8dBm ÷ 2dBm
- RF 46MHz ÷ 1000MHz
Frequency
- RF 75Ω
impedance
- AGC function Support

Other

- Dimension 225x38x140mm
- Weight ~ 350g
- Operating 10% ÷ 90%
Humidity Non- condensing
- Operating 0°C ÷ 40°C
Temperature

CUSTOMER CARE & TECHNICAL SUPPORT CENTRE

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