

GPON Gigabit ONT with VoIP Service



To deliver triple-play services to the subscriber in Fiber-to-the-Home or Fiber-to-the-Premises application, the GPON ONT H640GV incorporates interoperability, key customers' specific requirements and cost-efficiency.

The H640GV provides one GPON uplink port plus four Gigabit Ethernet (10/100/1000Base-T) ports, and two FXS voice ports that enhance the ability to deliver demanding VoIP services. Equipped with ITU-T G.984 compliant 2.5G Downstream and 1.25G Upstream GPON interface, the H640GV ONT supports the full Triple Play of services including voice, video, and high speed internet access.

The H640GV contains both built-in wire-speed L2 switch and L3 routing gateway with port forwarding, NAT and NAPT address translation, PPPoE client support for high speed Internet service.

GPON Interface

- ITU-T G.984.x compliant GPON ONT
- Data rate of 1.2Gbps/2.5Gbps (US/DS)
- Wavelength: TX 1310nm, RX 1490nm

Reliability and Management

- 802.1p Strict Priority
- L2/L3/L4 Filtering
- Remote Fault Monitoring Function

VoIP Service

- SIP RFC3261/3262/3264
- DTMF dialing / Pulse dialing
- Multiple codecs: G.711, G.723.1, G729
- T.38 FAX mode, Echo cancellation

Residential Gateway Unit Feature

- L3 routing gateway with NAT/NAPT and firewall
- PPPoE client, DHCP/DNS server support
- Port forwarding

Specifications

Flash Memory	128MB NAND
SDRAM	128MB DDR3
Capacity	GPON Interface: up 1.2Gbps/down 2.5Gbps
Uplink Interface	1 GPON port (SC/APC, SFF)
Service Interface	4 10/100/1000Base-T port (RJ45)
FXS Interface	2 FXS ports (RJ11)
LED	PWR, PON, ALM, VoIP, TEL1-2, LAN1-4

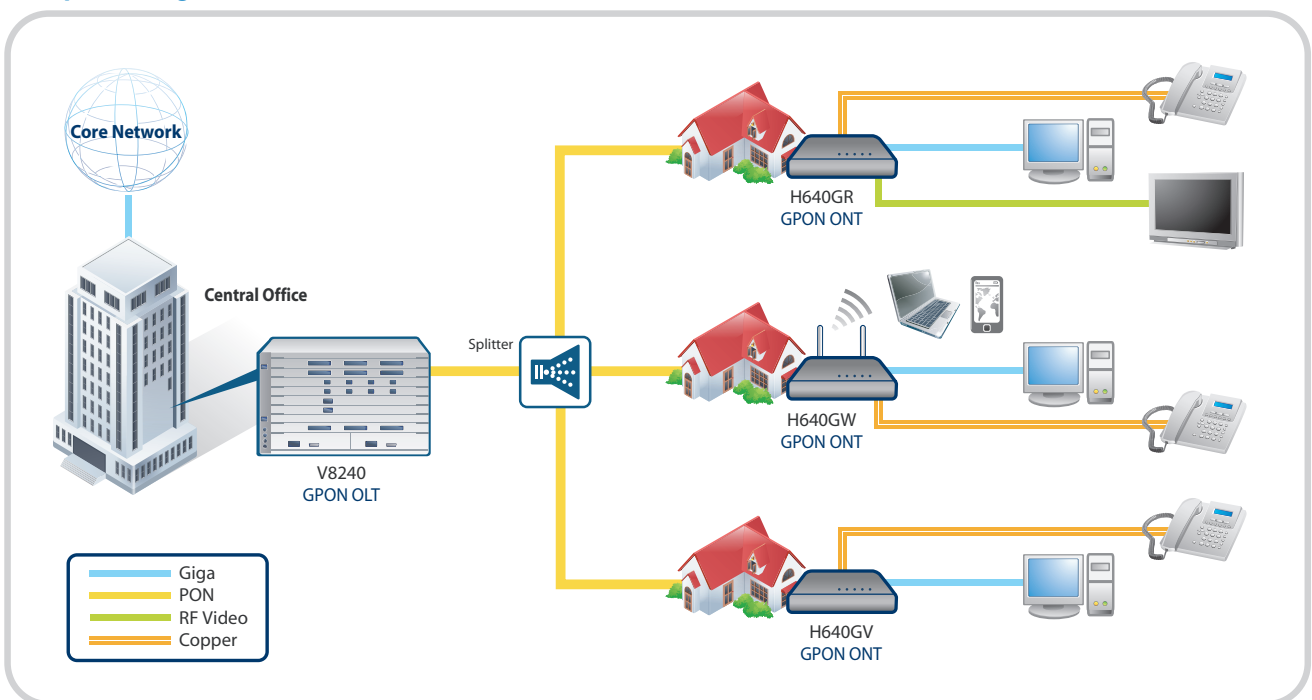
Operating Temp.	32 to 122°F (0 to 50°C)
Operating Humidity	5 to 90% (non-condensing)
Power Voltage (adapter)	Input: 100-240VAC, 50/60Hz Output: 12VDC/1A
Miscellaneous Interface	On/Off power switch, Reset button (system reboot)
Dimensions (W x H x D)	6.30 x 1.58 x 4.91 in (160 x 40 x 124.5 mm)

Capabilities

GPON	<ul style="list-style-type: none"> ITU-T G.984 compliant Forward Error Correction (FEC) Multiple T-CONTs/GEM ports per device Flexible mapping between GEM port and T-CONT Dying gasp
Layer 2	<ul style="list-style-type: none"> Untagged port configuration IEEE 802.1D and IEEE 802.1Q bridging Standard Ethernet bridging MAC address learning with auto aging (Up to 1K MAC addresses)
VLAN	<ul style="list-style-type: none"> VLAN port filtering Destination address port filtering 16 Active VLANs
Multicast	<ul style="list-style-type: none"> IGMP snooping

QoS	<ul style="list-style-type: none"> HW-based internal IEEE 802.1p (CoS) Strict Priority (SP), 802.1Q (VLAN tag) QoS mapping 8 queues per port
VoIP	<ul style="list-style-type: none"> SIP (RFC3261/3262/3264) 5-REN per FXS RTP, RTCP (RFC3550/3551) DTMF dialing / Pulse dialing Multiple codecs: G.711, G.723.1, G.729 T.38 FAX mode, Echo cancellation
RGU (L3 Routing mode)	<ul style="list-style-type: none"> PPPoE client : one client per RG ONT DHCP server DNS server (DNS relay, DNS transparent) NAT and NAPT: 16K session (US 8K, DS 8K) Port forwarding Stateful packet inspection firewall with ACL

Sample Configuration



DASAN Networks, Inc. www.dasannetworks.com

DASAN Tower, 49, Daewangpangyo-ro644Beon-gil, Bundang-gu, Seongnam-si, Gyeonggi-do, 463-400 KOREA