DASAN Networks

# H640GW

GPON Gigabit ONT with VoIP & Wi-Fi Service

# GPON Gigabit ONT

## with VoIP & Wi-Fi Service

To deliver triple-play services to the subscriber in Fiber-to-the-Home or Fiber-to-the-Premises application, the GPON ONT H640GW incorporates interoperability, key customers' specific requirements and cost-efficiency.

The H640GW provides one GPON uplink port plus four Gigabit Ethernet (10/100/1000Base-T) ports, wireless interface and two FXS voice ports that enhance the ability to deliver demanding VoIP/Wi-Fi services. Equipped with ITU-T G.984 compliant 2.5G Downstream and 1.25G Upstream GPON interface, the H640GW supports the full Triple Play of services including voice, video, and high speed internet access.

The H640GW 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

### Wireless LAN

- IEEE802.11b/g/n wireless interface, dual antenna
- Multiple SSIDs
- Security: WEP, WPA-PSK (TKIP) & WPA2-PSK (AES)

### 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



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# H640GW

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## 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) |
| Wi-Fi Interface | IEEE802.11b/g/n wireless interface |
| LED | PWR, PON, ALM, VoIP, TEL, WLAN, WPS, LAN |

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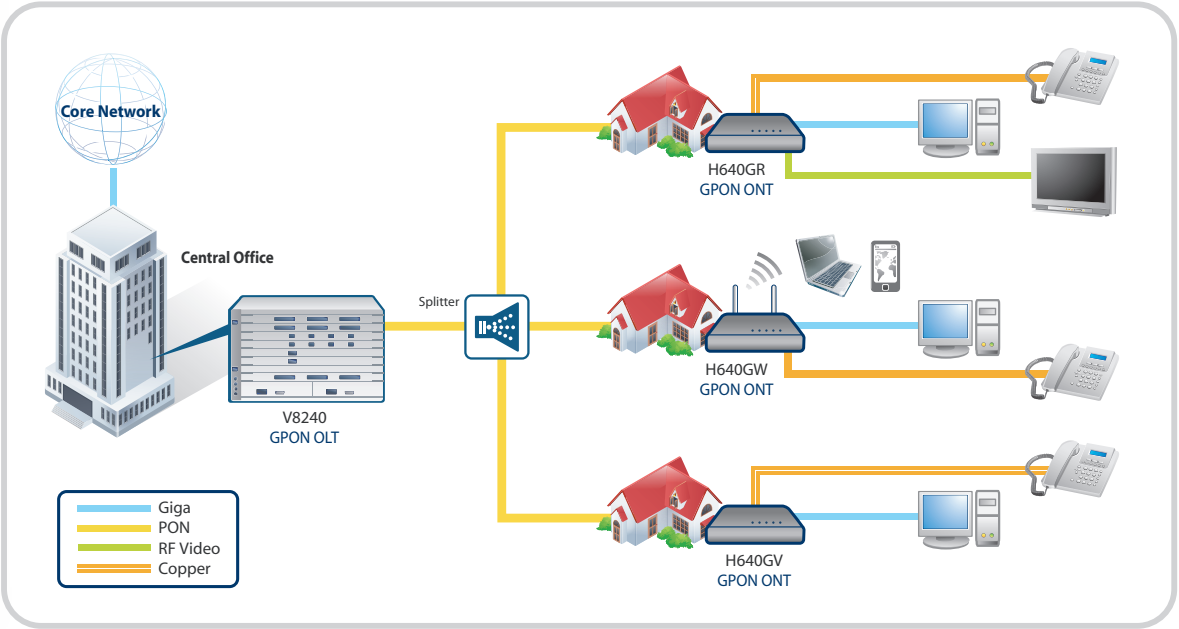
|---|---|
| Operating Temp. | 32 to 104°F (0 to 40°C) |
| Operating Humidity | 5 to 90% (non-condensing) |
| Power Voltage (adapter) | Input: 100-240VAC, 50/60Hz<br>Output: 12VDC/1.5A |
| Miscellaneous Interface | On/Off power switch,<br>Reset button (system reboot) |
| Dimensions (W x H x D) | 7.48 x 2.44 x 5.91 in<br>(190 x 62 x 150 mm) |

## Capabilities

| | |
|---|---|
| GPON | • ITU-T G.984 compliant<br>• Forward Error Correction (FEC)<br>• Multiple T-CONTs/GEM ports per device<br>• Flexible mapping between GEM port and T-CONT<br>• Dying gasp |
| Layer 2 | • Untagged port configuration<br>• IEEE 802.1D and IEEE 802.1Q bridging<br>• Standard Ethernet bridging<br>• MAC address learning with auto aging<br>(Up to 1K MAC addresses) |
| VLAN | • VLAN port filtering<br>• Destination address port filtering<br>• 16 Active VLANs |
| QoS | • HW-based internal IEEE 802.1p (CoS)<br>• Strict Priority (SP)<br>• 8 queues per port |
| Multicast | • IGMP snooping |

| | |
|---|---|
| Wi-Fi | • IEEE802.11b/g/n compliant<br>• Multiple SSIDs , Bandwidth: 2.4GHz<br>• 64/128bit wireless encryption protocol (WEP)<br>• Two Transmit and Two Receive path (2T2R)<br>• Max. data rate: 54Mbps in 802.11g |
| VoIP | • SIP (RFC3261/3262/3264)<br>• 5-REN per FXS<br>• RTP, RTCP (RFC3550/3551)<br>• DTMF dialing / Pulse dialing<br>• Multiple codecs: G.711, G.723.1, G729<br>• T.38 FAX mode, Echo cancellation |
| RGU (L3 Routing mode) | • PPPoE client : one client per RG ONT<br>• DHCP server<br>• DNS server (DNS relay, DNS transparent)<br>• NAT and NAPT: 16K session (US 8K, DS 8K)<br>• Port forwarding<br>• Stateful packet inspection firewall with ACL |

## Sample Configuration

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