# H680GW FTTH/GPON ONT

## Overview

To deliver triple-play services to the subscriber in Fiber-to-the-Home or Fiber-to-the-Premises application, the GPON ONT H680GW incorporates interoperability, key customers' specific requirements and cost-efficiency.
The H680GW provides one GPON uplink port plus four Gigabit Ethernet (10/100/1000Base-T) ports, one USB host interface, wireless interface and two FXS voice ports that enhance the ability to deliver demanding VoIP/Wi-Fi services.
The device has built-in concurrent dual-band Wi-Fi 802.11 a/b/g/n and 802.11ac networking with triple-play capability that simplifies/integrates the home equipment.
Equipped with ITU-T G.984 compliant 2.5G Downstream and 1.25G Upstream GPON interface, the H680GW supports the full Triple Play of services including voice, video, and high speed internet access.
The H680GW 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.

## Features

• 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
- IEEE802.11a/b/g/n, 2T2R
- IEEE802.11ac, 3T3R
- 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, G.729
- 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

# H680GW

FTTH/GPON ONT

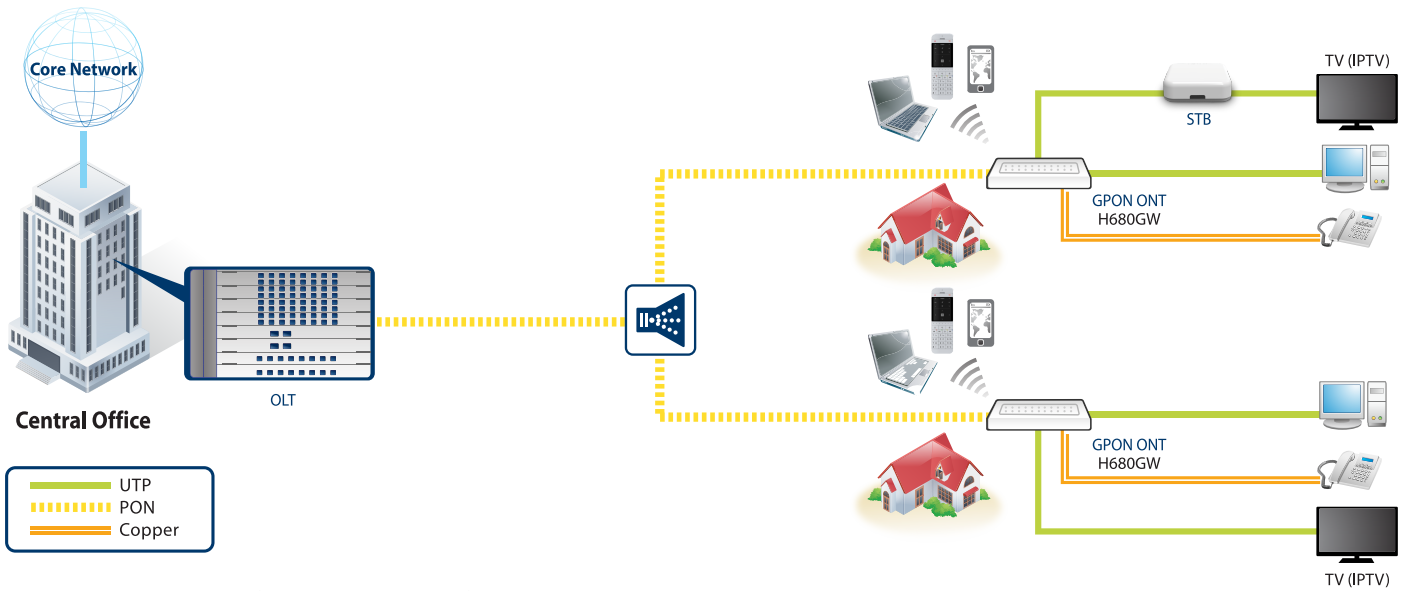
## Specification

| | |
|---|---|
| Flash Memory | 128MB NAND |
| SDRAM | 256MB DDR3 |
| Uplink Port | 1 GPON port (SC/APC, BOSA) |
| Service Port | 4 10/100/1000BASE-T ports (RJ45) |
| USB Port | 1 USB port |
| FXS Interface | 2 FXS ports (RJ11) |
| Wi-Fi Interface | 2.4G and 5G dual-band, dual-concurrent |
| IEEE802.11a/b/g/n wireless interface | IEEE802.11ac wireless interface |
| LED | PWR, PON, ALARM, VoIP, WLAN, TEL1-2, LAN1-4, USB |
| Operating Temp. | 23 to 122°F (-5 to 50°C) |
| Operating Humidity | 20 to 90% (non-condensing) |
| Power Voltage (adapter) | Input: 100-240VAC, 50/60Hz<br>Output: 12VDC/1.5A |
| Dimensions (W x H x D) | 7.48 x 1.81 x 5.79 in (190 x 46 x 147 mm) |
| Miscellaneous Interface | On/Off power switch, Reset button (system reboot) |

## 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>• Standard Ethernet bridging<br>• MAC address learning with auto aging (Up to 4K MAC addresses) |
| VLAN | • VLAN port filtering<br>• Destination address port filtering |
| Multicast | • IGMP snooping |
| QoS | • HW-based internal IEEE 802.1p (CoS)<br>• Strict Priority (SP)<br>• 8 queues per port |
| Wi-Fi | • IEEE802.11a/b/g/n/ac compliant<br>• Multiple SSIDs<br>• 64/128bit wireless encryption protocol(WEP)<br>• Max. data rate: 1.3Gbps in 802.11ac |
| 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<br>• Echo cancellation |
| RGU (L3 Routing mode) | • PPPoE client : multi client per RG ONT<br>• DHCP server / client<br>• DNS Relay 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




Maximum wireless signal rate derived from IEEE standard 802.11 specifications. Actual data throughput and wireless coverage will vary. Network conditions and environmental factors, including volume of network traffic, building materials and construction, and network overhead, lower actual data throughput rate and wireless coverage.