# HG323DAC

1*XPON+2GE+1POTS+WiFi5 HGU

## Key Features:

- Detect and exchange PON mode automatically.
- Support EasyMesh protocol
- WiFi5 Dual Band 1200Mbps
- IPv4/IPv6 Stack
- Support SIP protocol

## Introduction:

2GE+1POTS+WiFi5 XPON HGU terminal devices are designed for fulfilling FTTH and triple play service demand of fixed network operators. These boxes are based on the mature Chipset (Realtek) technology, which have high ratio of performance to price, and the technology of IEEE802.11b/g/n/ac WiFi, Layer 2/3, and high quality VoIP as well. Support full management of HGU devices through VSOL OLT. They are highly reliable and easy to maintain, with guaranteed QoS for different service. And they are fully compliant with technical regulations such as IEEE802.3ah, ITU-T G.984.x and technical requirement of GPON Equipment from China Telecom.

## Application Chart:
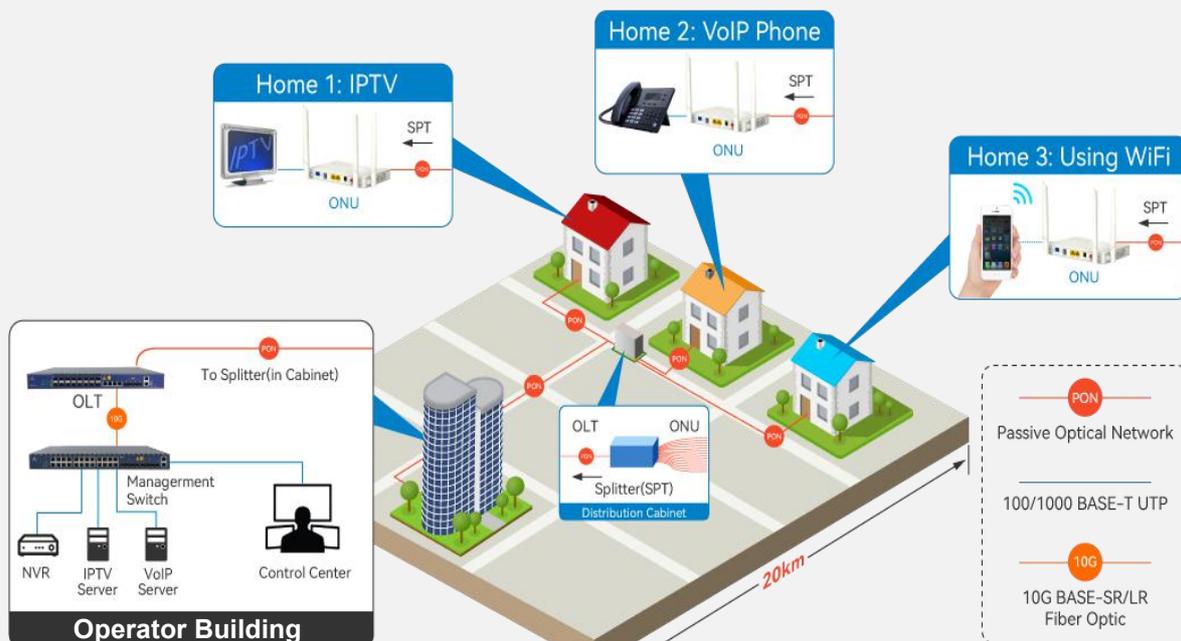
# Hardware Parameter

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|---|---|
| Dimension | 178mm×120mm×30m(L×W×H) |
| Net weight | 0.32Kg |
| Operating condition | Operating temp: 0 ~ +55°C<br>Operating humidity:10 ~ 90%(non-condensed) |
| Storing condition | Storing temp: -30 ~ +60°C<br>Storing humidity: 10 ~ 90% (non-condensed) |
| Power adapter | DC 12V,1.5A, external AC-DC power adaptor |
| Power supply | ≤10W |
| Interface | 2GE+1POTS+WiFi5 |
| Indicators | PWR, PON, LOS, WAN, LAN1, LAN2, 2.4G, 5G, PHONE |

# Interface parameter

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|---|---|
| PON interface | • 1XPON port(EPON PX20+ and GPON Class B+)<br>• SC single mode, SC/UPC connector<br>• TX optical power: 0～+4dBm<br>• RX sensitivity: -27dBm<br>• Overload optical power: -3dBm(EPON) or -8dBm(GPON)<br>• Transmission distance: 20KM<br>• Wavelength: TX 1310nm, RX1490nm |
| User interface | • 2 * GE, Auto-negotiation,RJ45 ports<br>• 1 * POTS RJ11 Connector |
| WLAN interface | • Compliant with IEEE802.11b/g/n/ac<br>• 2.4GHz: 2.4000-2.4835GHz<br>• 5.0GHz: 5.150-5.825GHz<br>• WiFi:2.4GHz 2×2, 5.8GHz 2×2, 5dBi antenna, rate up to 1.167Gbps,Multiple SSID<br>• TX power: 11n--22dBm/11ac--24dBm |

# Function Data

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|---|---|
| Management | • OAM/OMCI, Telnet, WEB, TR069<br>• Support full management of HGU functions by VSOL OLT |
| Internet connection | Support Bridge,Route and Bridge/Route mixed mode |
| Multicast | • Support IGMP v1/v2/v3<br>• Support IGMP Proxy and MLD Proxy<br>• Support IGMP Snooping and MLD Snooping |
| VLAN | • Support VLAN tag mode<br>• Support VLAN trunk mode<br>• Support VLAN translation |

# Function Data

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|---|---|
| Data Service Functions | • Full speed non-blocking switching<br>• 2K MAC address table<br>• 64 full range VLAN ID<br>• Integrated port monitoring, port mirroring, port rate limiting, port SLA, etc<br>• Support auto polarity detection of Ethernet ports (AUTO MDIX)<br>• Integrated IEEE802.1p QoS with four level priority queues<br>• Support IGMP v1/v2/v3 snooping/proxy and MLD v1/v2 snooping/proxy |
| VoIP | • SIP and IMS SIP<br>• G.711a/G.711u/G.722/G.729 Codec<br>• Echo cancellation,VAD/CNG,DTMF Relay<br>• T.30/T.38 FAX<br>• Caller Identification/Call Waiting/Call Forwarding/Call Transfer/Call Hold/3-way Conference<br>• Line testing according to GR-909 |
| Wireless | • Support Wireless AP mode<br>• Support 802.11 b/g/n/ac<br>• Support Multiple SSID<br>• Authentication : WEP/WAP-PSK(TKIP)/WAP2-PSK(AES)<br>• Modulation type: DSSS, CCK and OFDM<br>• Encoding scheme: BPSK, QPSK, 16QAM and 64QAM<br>• Support EasyMesh protocol |
| QoS | • Support 4 queues<br>• Support SP and WRR<br>• Support 802.1P and DSCP |
| L3 | • Support IPv4, IPv6 and IPv4/IPv6 dual stack<br>• Support DHCP/PPPOE/Static<br>• Support Static route<br>• Support DHCP Server<br>• Support NAT/DMZ/DDNS<br>• Support Virtual Server |
| Security | • Support Firewall<br>• Support Mac filter Based on MAC or URL<br>• Support ACL |

| Product Name | Product Description | Accessories |
|---|---|---|
| HG323DAC | 2GE+1POTS+WiFi5 | AC-DC power adaptor: DC12V/1.5A |