



# HG323ACT

1\*XPON+2GE+1POTS+WiFi 5+USB3.0+CATV HGU ONT



Realtek Chipset  
High Performance Solution



WiFi 5 Dual Band  
1200Mbps



IPv4/IPv6 Dual Stack



Remote Control  
CATV(with AGC) on/off



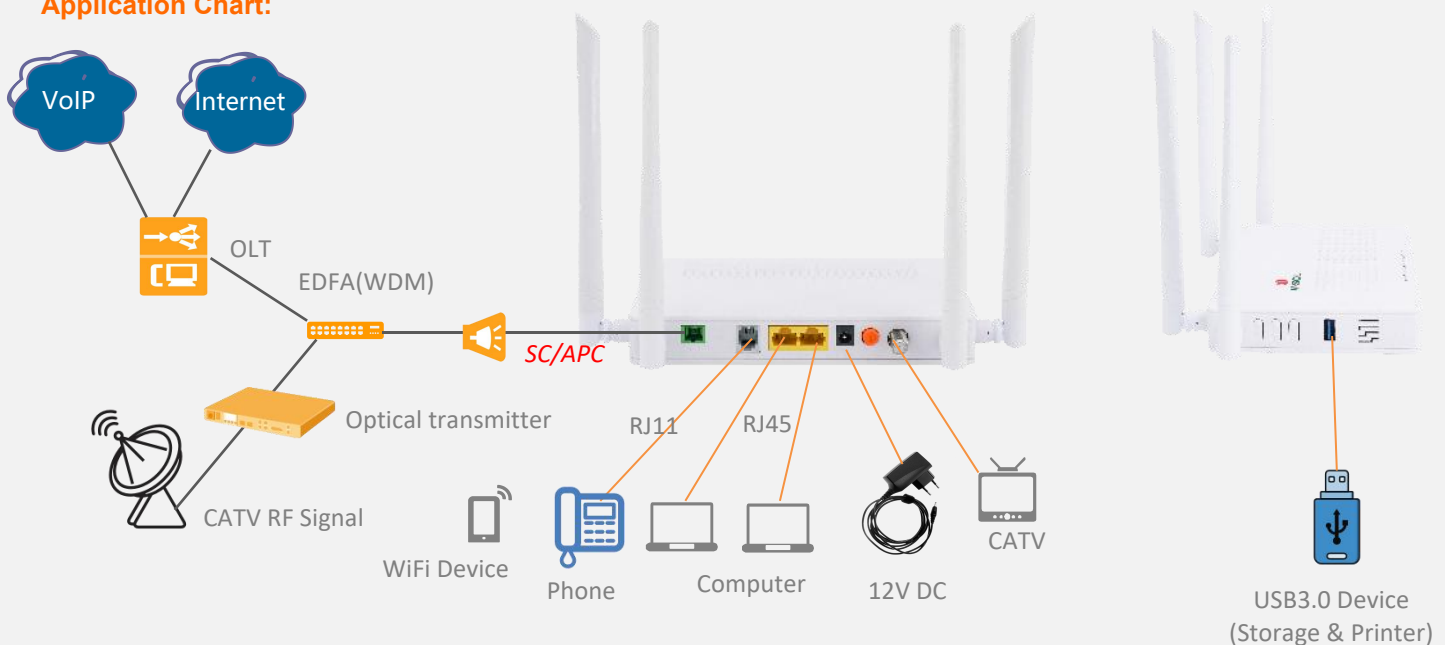
### Introduction:

HG323ACT (2GE+1POTS+WiFi 5+USB3.0+CATV XPON HGU ONT) is a broadband access device specially designed to meet the needs of fixed network operators for FTTH and triple play services.

The ONT is based on high-performance chip solutions, supports XPON dual-mode technology (EPON and GPON), and also supports IEEE802.11b/g/n/ac WiFi 5 technology and other Layer 2/Layer 3 functions, providing data service for carrier-grade FTTH applications. In addition, the ONT also supports the OAM/OMCI protocol, and we can configure or manage various services of the ONT on the VSOL OLT.

The ONT has high reliability, is easy to manage and maintain, and has QoS guarantees for various services. It conforms to a series of international technical standards such as IEEE802.3ah and ITU-T G.984.

### Application Chart:



## ○ Hardware Parameter

Dimension	178mm×120mm×30mm(L×W×H)
Net weight	0.345Kg
Operating condition	Operating temp: 0 ~ +55°C Operating humidity:10 ~ 90% (non-condensing)
Storing condition	Storing temp: -30 ~ +60°C Storing humidity: 10 ~ 90% (non-condensing)
Power adapter	DC12V,1.5A, external AC-DC power adaptor
Power supply	≤10W
Interface	2GE+1POTS+WiFi 5+USB 3.0+CATV
Indicators	PWR, PON, LOS, WAN, LAN1, LAN2, 2.4G, 5G, PHONE, CATV, USB 3.0

## ○ Interface Parameter

PON interface	<ul style="list-style-type: none"> <li>• 1XPON port(EPON PX20+ &amp; GPON Class B+)</li> <li>• SC single mode, SC/APC connector</li> <li>• TX optical power: 0~+4dBm</li> <li>• RX sensitivity: -27dBm</li> <li>• Overload optical power: -3dBm(EPON) or -8dBm(GPON)</li> <li>• Transmission distance: 20KM</li> <li>• Wavelength: TX 1310nm, RX1490nm</li> </ul>
User interface	<ul style="list-style-type: none"> <li>• 2*GE, Auto-negotiation, RJ45 ports</li> <li>• 1 POTS RJ11 Connector</li> <li>• 1*USB 3.0, for Shared Storage/Printer</li> </ul>
WLAN interface	<ul style="list-style-type: none"> <li>• Compliant with IEEE802.11b/g/n/ac</li> <li>• WiFi:2.4GHz 2×2, 5.8GHz 2×2, 5dBi antenna, rate up to 1.167Gbps, Multiple SSID</li> <li>• TX power: 2.4GHz: 23dBm; 5GHz: 24dBm</li> <li>• RX power: 2.4GHz: HT40-MCS7 -72dBm; 5GHz: VHT80 MCS9 &lt;-62dBm</li> </ul>
CATV interface	<ul style="list-style-type: none"> <li>• RF, optical power: +2 to -18dBm</li> <li>• Optical reflection loss: ≥45dBm</li> <li>• Optical receiving wavelength: 1550±10nm</li> <li>• RF frequency range: 47~1000MHz, RF output impedance: 75Ω</li> <li>• RF output level(with AGC, option for 2 range):≥82dBuV@(+2~-10dBm) or ≥76dBuV@(+2~-12dBm)</li> <li>• MER: ≥32dB(-14dBm optical input), &gt;35(-10dBm)</li> </ul>

## ○ Function Data

O&M	<ul style="list-style-type: none"> <li>• OAM/OMCI, Telnet, WEB, TR069</li> <li>• Support full management of HGU functions by VSOL OLT</li> </ul>
Connect Mode	Support bridge, router & bridge/router mixed mode
QoS	<ul style="list-style-type: none"> <li>• Support 4 queues</li> <li>• Support SP, WRR, 802.1P and DSCP</li> </ul>
Data Service Functions	<ul style="list-style-type: none"> <li>• Full speed non-blocking switching</li> <li>• 2K MAC address table</li> <li>• 64 full range VLAN ID</li> <li>• Support VLAN tag, untag, transparent, trunk, translation mode</li> <li>• Integrated port monitoring, port mirroring, port rate limiting, port SLA, etc</li> <li>• Support auto polarity detection of Ethernet ports (AUTO MDIX)</li> <li>• Support IGMP v1/v2/v3 snooping/proxy and MLD v1/v2 snooping/proxy</li> </ul>
Wireless	<ul style="list-style-type: none"> <li>• Integrated 802.11b/g/n/ac</li> <li>• Authentication:WEP/WAP-PSK(TKIP)/WAP2-PSK(AES)</li> <li>• Modulation type:DSSS,CCK and OFDM</li> <li>• Encoding scheme:BPSK,QPSK,16QAM and 64QAM</li> <li>• EasyMesh</li> </ul>
VoIP	<ul style="list-style-type: none"> <li>• SIP and IMS SIP</li> <li>• G.711a/G.711u/G.722/G.729 Codec</li> <li>• Echo cancellation,VAD/CNG,DTMF Relay</li> <li>• T.30/T.38 FAX</li> <li>• Caller Identification/Call Waiting/Call Forwarding/Call Transfer/Call Hold/3-way Conference</li> <li>• Line testing according to GR-909</li> </ul>
L3	<ul style="list-style-type: none"> <li>• IPv4, IPv6 and IPv4/IPv6 dual stack</li> <li>• DHCP/PPPOE/Static</li> <li>• Static route, DHCP Server</li> <li>• NAT/DMZ/DDNS/Virtual Server</li> </ul>
Security	<ul style="list-style-type: none"> <li>• Support Firewall</li> <li>• Support Mac filter Based on MAC or URL</li> <li>• Support ACL</li> </ul>

### Ordering Information:

Product Name	Product Description	Accessories
HG323ACT	2GE+1POTS+WIFI 5+USB3.0+CATV	AC-DC power adaptor: DC12V/1.5A