



# 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



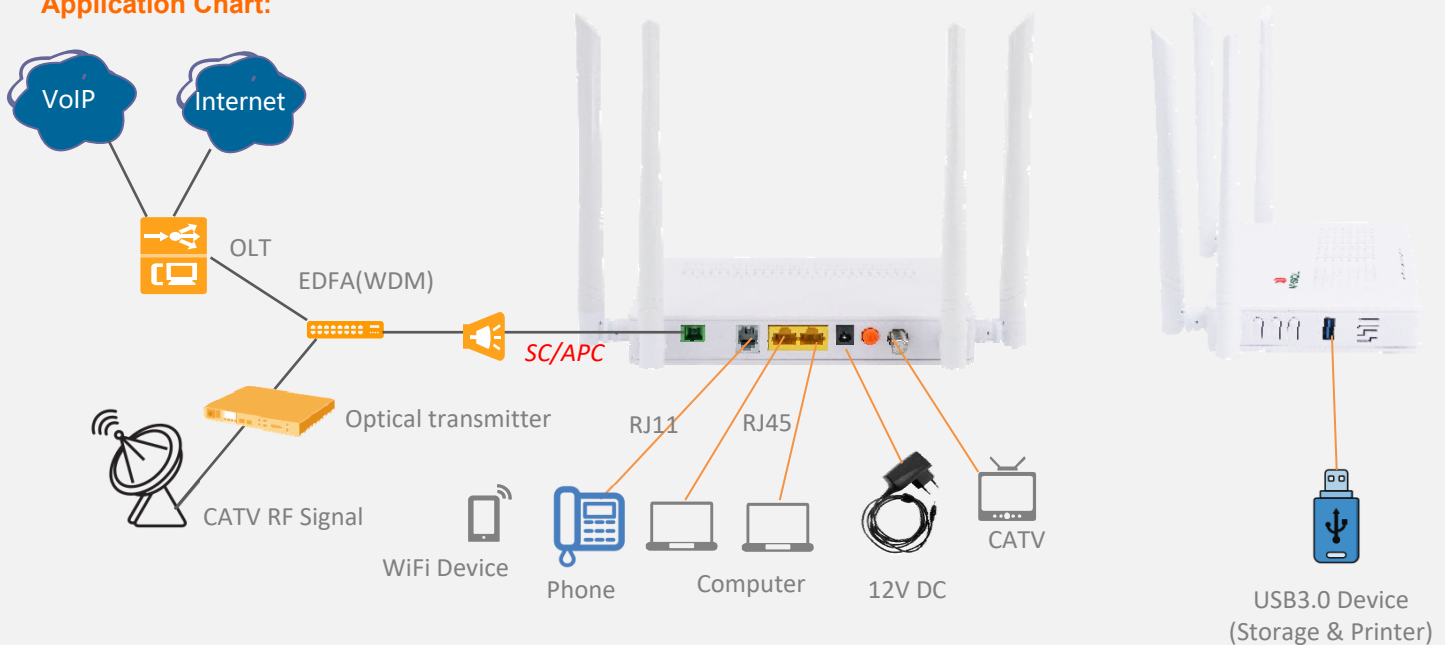
## Introduction:

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×30m(L×W×H)
Net weight	0.28Kg
Operating condition	Operating temp: 0 ~ +55°C Operating humidity:10 ~ 90%(non-condensed)
Storing condition	Storing temp: -30 ~ +60°C Storing humidity: 10 ~ 90% (non-condensed)
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/UPC 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>
Optical interface	SC/APC connector
User interface	<ul style="list-style-type: none"> <li>• 2*GE, Auto-negotiation, RJ45 ports</li> <li>• 1 POTS RJ11 Connector</li> </ul>
USB interface	1*USB 3.0 for Shared Storage/Printer
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: 11n--22dBm/11ac--24dBm</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

Management	<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>
Mode	Support bridge, router & bridge/router mixed mode
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 QinQ VLAN, 1:1 VLAN, VLAN reusing, VLAN trunk, etc</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>• Integrated IEEE802.1p QoS with four level priority queues</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> </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</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>• Support NAT, Firewall</li> <li>• Support IPv4/IPv6 dual stack</li> </ul>
Other function	<ul style="list-style-type: none"> <li>• Integrated OAM/OMCI remote configuration and maintenance function</li> <li>• Support rich QinQ VLAN functions and IGMP snooping multicast features</li> </ul>

### Ordering Information:

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