



# HG322WT

1\*XPON+1GE+1POTS+WiFi 4+CATV HGU ONT

### Key Features:



XPON Dual Mode  
Auto EPON/GPON Mode



WiFi IEEE802.11b/g/n  
2T2R 5dBi Antenna



SIP Protocol



Remote Control  
CATV(with AGC) on/off

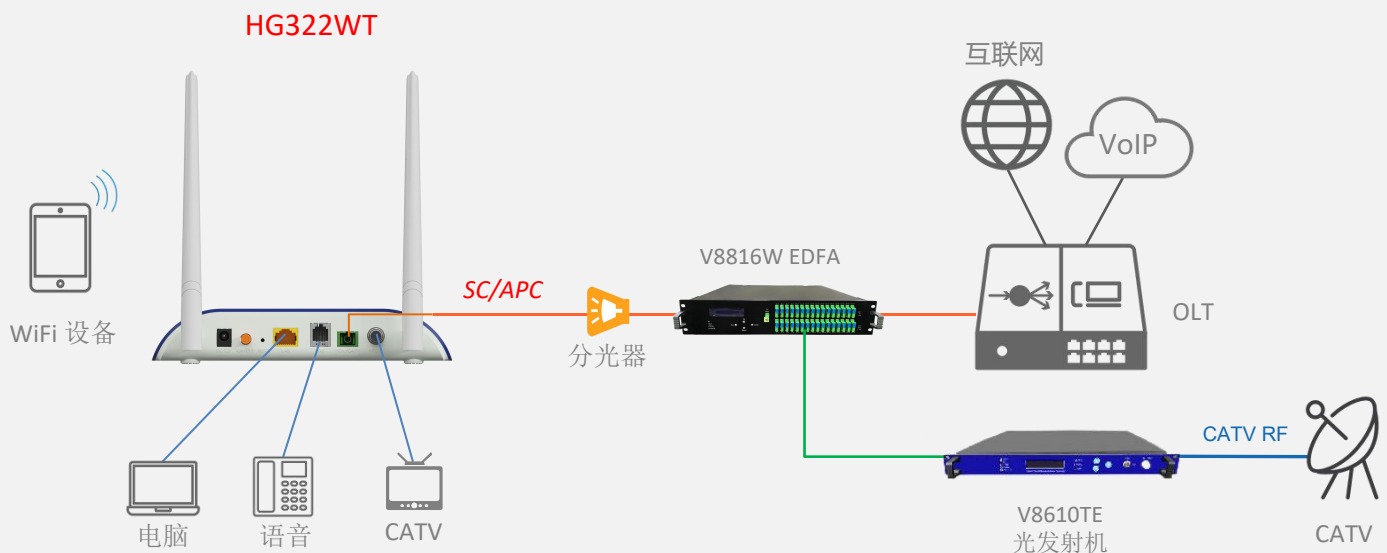
### Introduction:

HG322WT (XPON 1GE+1POTS+WiFi 4+CATV XPON ONT) is a broadband access device specially designed to meet the needs of telecom operators for FTTO (Office), FTTD (Desktop), FTTH (Home), SOHO access, and video surveillance access.

The ONT is based on high-performance chip solutions, supports XPON dual-mode technology (EPON and GPON), and also supports IEEE802.11b/g/n WiFi 4 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	185mm*120mm*34mm(L*W*H)
Net weight	0.25KG
Operating condition	<ul style="list-style-type: none"> <li>• Operating temp: -10 ~ +55°C</li> <li>• Operating humidity: 5 ~ 95% (non-condensing)</li> </ul>
Storing condition	<ul style="list-style-type: none"> <li>• Storing temp: -40 ~ +70°C</li> <li>• Storing humidity: 5 ~ 95% (non-condensing)</li> </ul>
Power adapter	DC 12V/1.5A, external AC-DC power adaptor
Power supply	≤18W
Interfaces	1GE+1POTS+WiFi 4+CATV
Indicators	POWER, PON, LOS, LAN, FXS, CATV, WiFi

## ○ Interface Parameter

PON interface	<ul style="list-style-type: none"> <li>• 1XPON port(EPON PX20+ and 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>• 1*GE,Auto-negotiation, RJ45 connectors</li> <li>• 1*POTS, RJ11 connectors</li> </ul>
CATV interface	<ul style="list-style-type: none"> <li>• Optical receiving wavelength: 1550±10nm</li> <li>• Optical input range: +2~-18dBm</li> <li>• Optical reflection loss: ≥40dB</li> <li>• RF frequency range: 47~1000MHz</li> <li>• RF output impedance: 75Ω</li> <li>• RF output level and AGC range: <ul style="list-style-type: none"> <li>• ≥81±2dBuV@+1~-10dBm</li> <li>• ≥79±2dBuV@ 0~-11dBm</li> <li>• ≥77±2dBuV@-1~-12dBm</li> <li>• ≥75±2dBuV@-2~-13dBm</li> <li>• ≥73±2dBuV@-3~-14dBm</li> <li>• ≥71±2dBuV@-4~-15dBm</li> </ul> </li> <li>• MER: ≥32dB(-14dBm optical input)</li> </ul>

## ○ Function Data

PON mode	Dual Mode , Can access EPON/GPON OLTs(HUAWEI,ZTE,FiberHome, etc).
Uplink mode	Bridging and Routing Mode.
Layer2	802.1D&802.1ad bridge,802.1p Cos, 802.1Q VLAN.
Layer3	IPv4/IPv6 , DHCP Client/Server , PPPoE, NAT , DMZ ,DDNS.
Multicast	IGMPv1/v2/v3 , IGMP snooping.
Security	Flow & Storm control, Loop Detection.
WiFi	<ul style="list-style-type: none"> <li>• Compliant with IEEE802.11b/g/n,</li> <li>• Operating frequency: 2.400-2.4835GHz</li> <li>• support MIMO, rate up to 300Mbps,</li> <li>• 2T2R,2 external antenna 5dBi,</li> <li>• Support: multiple SSID</li> <li>• Channel:13</li> <li>• Modulation type: DSSS、CCK and OFDM</li> <li>• Encoding scheme: BPSK、QPSK、16QAM and 64QAM</li> <li>• WiFi Authentication:WEP/WAP-PSK(TKIP) /WAP2-PSK(AES)</li> <li>• Support: multiple SSID</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>
Firewall	Filtering Based on ACL/MAC/URL.
O&M	<ul style="list-style-type: none"> <li>• WEB/TELNET/OAM/OMCI/TR069,</li> <li>• Support private OAM/OMCI protocol and Unified network management of VSOL OLT.</li> </ul>

Product Name	Product Description	Accessories
HG322WT	1GE+1POTS+WiFi 4+CATV	AC-DC power adaptor: DC12V/1.5A