



# V2802GWT

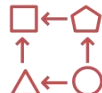
1\*XPON+1GE+1FE+WiFi 4+CATV ONT



### Key Features:



Realtek Chipset  
High Performance Solution



XPON Dual Mode  
Automatically Access to  
EPON/GPON



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



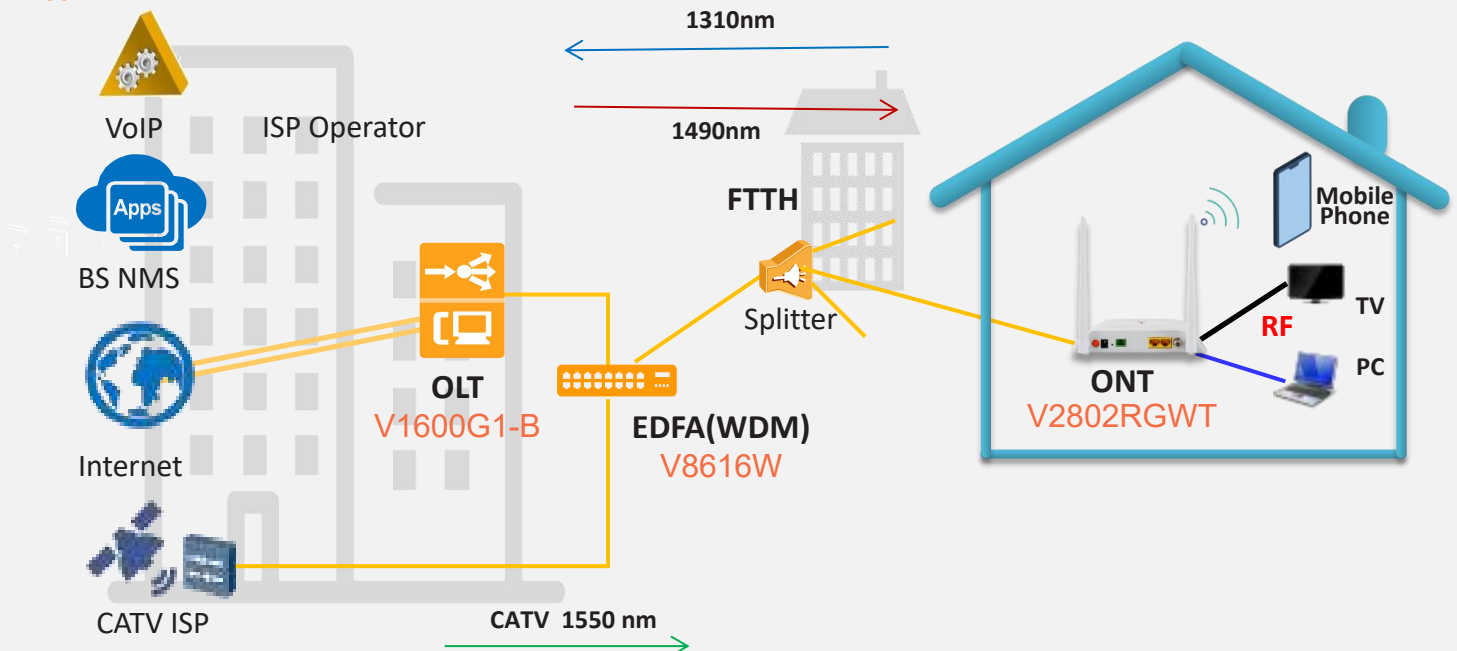
Remote Control  
CATV(with AGC) on/off

### Introduction:

V2802GWT( 1GE+1FE+WiFi 4+CATV XPON ONT ) is specially designed for different FTTH solutions. The ONT is based on a high-performance chipset (Realtek) technology solution, supporting IEEE802.11b/g/n WIFI technology and other Layer 2/Layer 3 functions, and can provide data services for carrier-grade FTTH applications.

The ONT has high reliability and is easy to manage and maintain. It has QoS guarantees for different services. It complies with the China Telecom CTC2.1/3.0 and international technical standards such as IEEE802.3ah, ITU-T G.984, etc.

### Application Chart:



## ○ Hardware Parameter

Dimension	185mm×120mm×34mm(L×W×H)
Net weight	0.29Kg
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/1A, external AC-DC power adaptor
Power supply	≤7W
Interfaces	1GE+1FE+WiFi 4+CATV
Indicators	PWR, LOS, REG, GE, FE, WiFi, CATV

## ○ 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, CATV 1550nm</li> </ul>
WiFi interface	<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> </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:</li> <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> <li>MER: ≥32dB(-14dBm optical input)</li> </ul>
User interface	<ul style="list-style-type: none"> <li>1*GE+ 1*FE Auto-negotiation RJ45 ports</li> </ul>

## ○ Function Data

PON mode	XPON Dual Mode , Can access mainstream EPON/GPON OLTs
Uplink Mode	Bridging and Routing Mode
Alarm	Support Dying Gasp, Port Loop Detect and Eth Port Los
VLAN	<ul style="list-style-type: none"> <li>4K VLAN</li> <li>VLAN tag, untag, transparent, trunk, translation mode</li> </ul>
Multicast	<ul style="list-style-type: none"> <li>Max Multicast Group 64</li> <li>IGMPv1/v2/v3/Proxy/Snooping, MLD v1/v2</li> </ul>
QoS	<ul style="list-style-type: none"> <li>Support 4 queues</li> <li>Support SP, WRR, 802.1P and DSCP</li> </ul>
L3	<ul style="list-style-type: none"> <li>DHCP/PPPOE/Static IP, NAT</li> <li>DHCPv6 Server, IPv4/IPv6 Static route</li> <li>IPv4/IPv6 dual stack</li> </ul>
WiFi	<ul style="list-style-type: none"> <li>Authentication : WEP/WAP-PSK(TKIP)/WAP2-PSK(AES)</li> <li>Multiple SSID and SSID conceal</li> <li>Wireless channel selection</li> </ul>
CATV	Support CATV Rmote management
Security	<ul style="list-style-type: none"> <li>Flow &amp; Storm control, Loop Detection</li> <li>Filtering Based on ACL/MAC/URL</li> </ul>
Management	<ul style="list-style-type: none"> <li>CTC OAM 2.1 and 3.0</li> <li>ITU984.x OMCI</li> <li>EMS\WEB\Telnet\CLI and unified network management of VSOL OLT</li> </ul>

Product Name	Product Description	Accessories
V2802GWT	1GE+1FE+WiFi 4+CATV	AC-DC power adaptor: DC12V/1A