



# V2802GWT

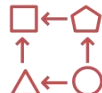
1\*XPON+1GE+1FE+WiFi 4+CATV ONT



### Key Features:



Realtek Chipset  
High Performance Solution



XPON Dual Mode  
Automatically Access to  
EPON/GPON



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



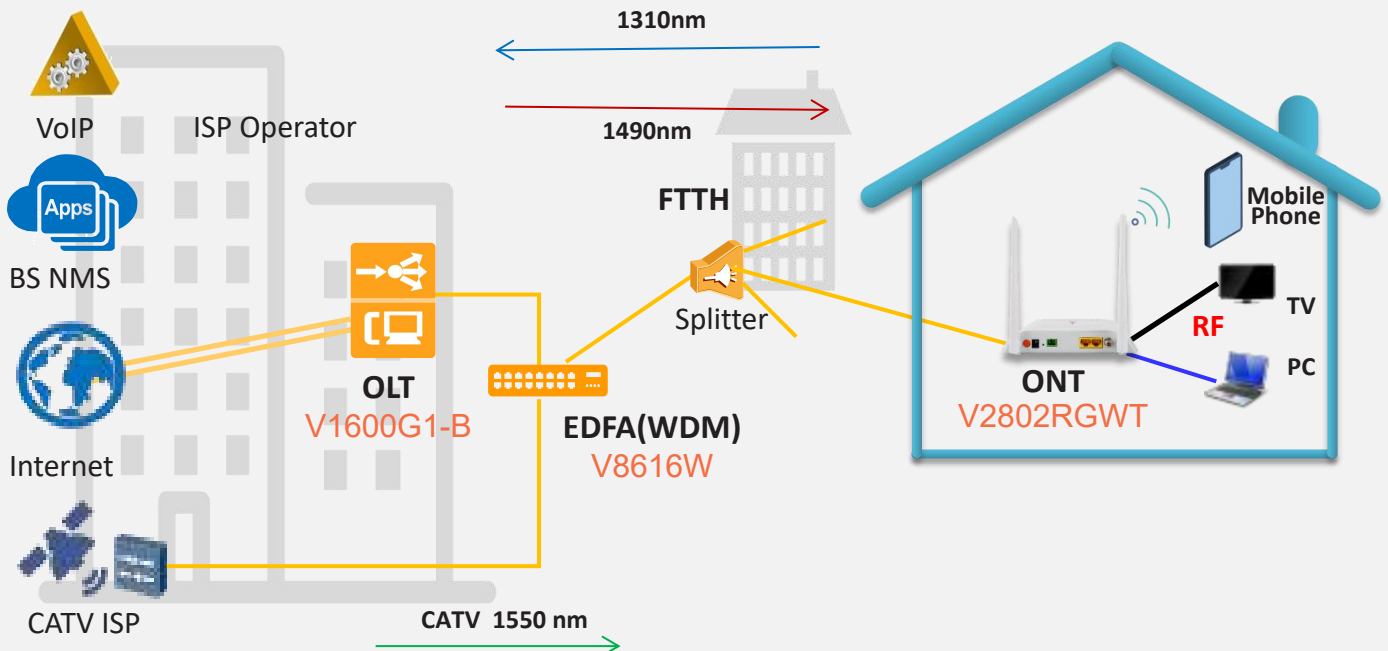
Remote Control  
CATV(with AGC) on/off

### 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×34m(L×W×H)
Net weight	0.29Kg
Operating condition	<ul style="list-style-type: none"> <li>• Operating temp: 0 ~ +50°C</li> <li>• Operating humidity: 10 ~ 90% (non-condensed)</li> </ul>
Storing condition	<ul style="list-style-type: none"> <li>• Storing temp: -30 ~ +70°C</li> <li>• Storing humidity: 10 ~ 90% (non-condensed)</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>• IEEE802.11b/g/n (TX power:17dBm/16dBm /15dBm), Up to 300Mbps</li> <li>• 2T2R, 5dBi external antenna</li> <li>• Support 13 Channels</li> </ul>
LAN interface	1*GE+ 1*FE Auto-negotiation RJ45 ports
CATV interface	<ul style="list-style-type: none"> <li>• RF, optical power : +2~-18dBm</li> <li>• Optical reflection loss: ≥45dB</li> <li>• Optical receiving wavelength: 1550±10nm</li> <li>• RF frequency range: 47~1000MHz, RF output impedance: 75Ω</li> <li>• RF output level and AGC range: 83dbuv@0~-10dBm / 81dbuv@-1~-11dBm / 79dbuv@-2~-12dBm /77dbuv@-3~-13dBm / 75dbuv@-4~-14dBm / 73dbuv@-5~-15dBm</li> <li>• MER: ≥32dB(-14dBm optical input), &gt;35(-10dBm)</li> </ul>

## ○ Function Data

PON mode	XPON Dual Mode , Can access mainstream EPON/GPON OLTs
Uplink Mode	Bridging and Routing Mode
Basic	<ul style="list-style-type: none"> <li>• Support MPCP discover&amp;register</li> <li>• Support authentication Mac/Loid/Mac+Loid</li> <li>• Support Triple Churning</li> <li>• Support DBA bandwidth</li> <li>• Support auto-detecting, auto-configuration, and auto firmware upgrade</li> <li>• Support authentication SN/Psw/Loid/Loid+Psw</li> </ul>
Alarm	Support Dying Gasp, Port Loop Detect and Eth Port Los
LAN	<ul style="list-style-type: none"> <li>• Support Loop Detection</li> <li>• Support Storm Control</li> </ul>
VLAN	<ul style="list-style-type: none"> <li>• Support 4K VLAN</li> <li>• Support VLAN Tag/untag</li> <li>• Support VLAN Translation</li> <li>• Support VLAN Bound</li> <li>• Support Auto VLAN Detection</li> </ul>
Multicast	<ul style="list-style-type: none"> <li>• Support IGMPv1/v2, IGMP Snooping</li> <li>• Support MLD</li> <li>• Max Multicast Group 64</li> </ul>
QoS	<ul style="list-style-type: none"> <li>• Support 4 queues</li> <li>• Support SP and WRR</li> <li>• Support 802.1P</li> </ul>
L3	<ul style="list-style-type: none"> <li>• Support DHCP/PPPOE/Static IP, NAT</li> <li>• Support DHCPv6 Server, IPv4/IPv6 Static route</li> <li>• Support IPv4/IPv6 dual stack</li> </ul>
WiFi	<ul style="list-style-type: none"> <li>• Support Authentication : WEP/WAP-PSK(TKIP)/WAP2-PSK(AES)</li> <li>• Support multiple SSID and SSID conceal</li> <li>• Support Wireless channel selection</li> </ul>
CATV	Support CATV Rmote management
Management	<ul style="list-style-type: none"> <li>• Support CTC OAM 2.1 and 3.0</li> <li>• Support ITUT984.x OMCI</li> <li>• Support 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