



# V2801WT

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

### Key Features:

**XPON**  
XPON Dual Mode  
Auto EPON/GPON Mode

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

**IPv6**  
IPv4/IPv6 Dual Stack

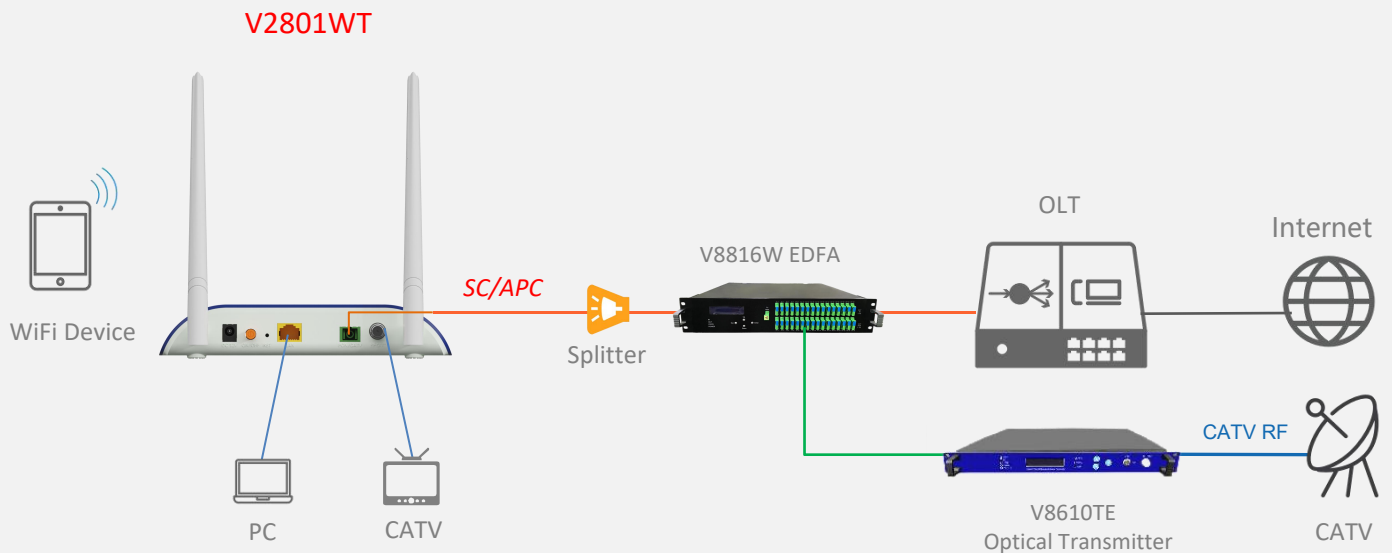
**Remote Control**  
CATV(with AGC) on/off

### Introduction:

V2801WT(1GE+WiFi+CATV XPON ONT) is specially designed to meet the access requirements of telecom operators such as FTTH and SOHO. The ONT is based on a high-performance chip solution (Realtek), supports mature IEEE 802.11 b/g/n WiFi 4 technology, and also supports Layer 2/Layer 3 functions, providing 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 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	0.25Kg
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, 1A, external AC-DC power adaptor
Power supply	≤12W
Interfaces	1GE+WIFI4+CATV
Indicators	POWER, PON, LOS, LAN, CATV, WiFi

## ○ Interface Parameter

PON interface	<ul style="list-style-type: none"> <li>• 1 XPON 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> </ul>
LAN interface	1*GE Auto-negotiation RJ45 ports
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>

## ○ Product Feature

PON mode	XPON Dual mode , Can access to mainstream EPON/GPON OLTs
Software mode	Routing mode
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>
Firewall	DDOS, Filtering Based on ACL/MAC/ URL.
Layer2	802.1D&802.1ad bridge, 802.1p Cos, 802.1Q VLAN.
Layer3	IPv4/IPv6, DHCP Client/Server, PPPoE, NAT , DMZ ,DDNS.
Multicast	IGMP v1/v2/v3 , IGMP snooping
Security	Flow & Storm control, Loop Detection
O&M	WEB/TELNET/OAM/OMCI/TR069.

Product Name	Product Description	Accessories
V2801WT	1GE+WiFi 4+CATV	AC-DC power adaptor: DC12V/1A