



# V2804ACT

1\*XPON+4GE+USB3.0+WiFi 5+CATV ONT

**Key Features:**

- XPON Dual Mode
- 2.4/5G dual band WiFi EasyMesh
- USB3.0 SUPER SPEED
- O&M Management
- Support guaranteed QoS
- Support IPv4/IPv6



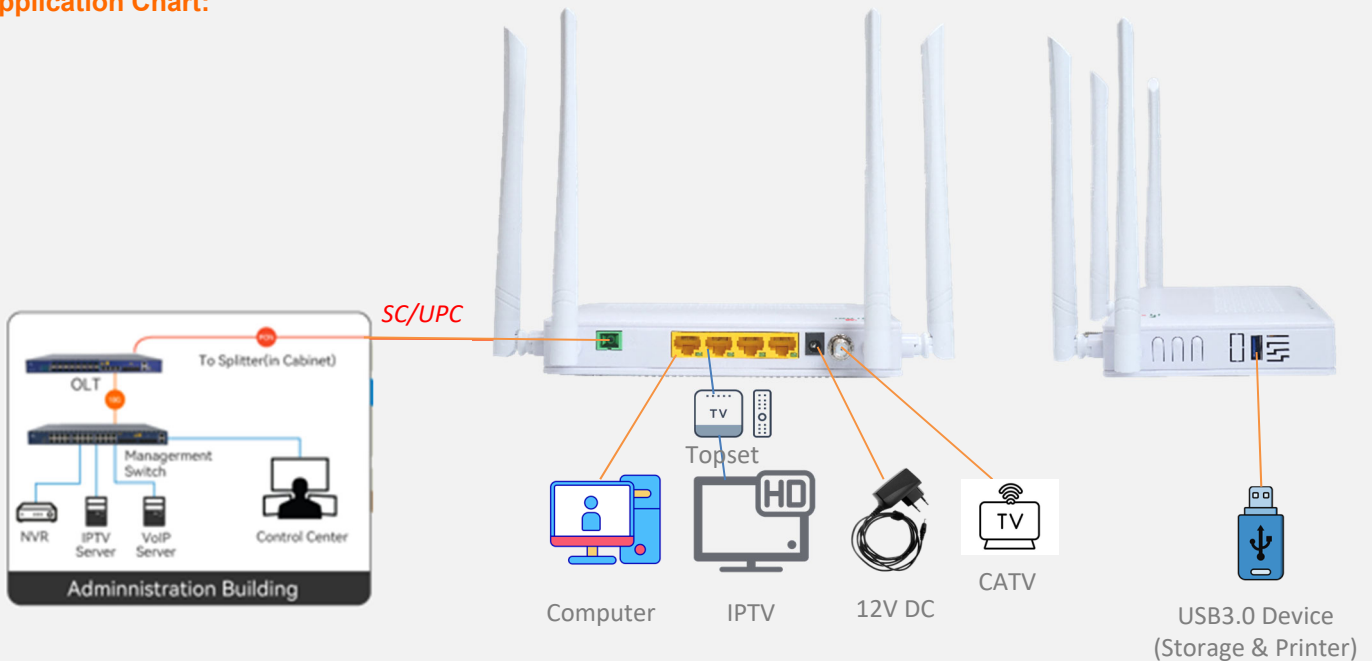
**Introduction:**

V2804ACT (4GE+WiFi5+CATV+USB3.0 XPON 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 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	420g
Operating condition	Operating temp: 0° C~+50° C Operating humidity:10%~90% (non-condensing)
Storing condition	Storing temp: -30~+60° C Storing humidity: 10~90% (non-condensed)
Power adapter	DC 12V/1A
Power supply	12W
Interface	4GE+CATV+USB3.0+WiFi
LED Indicators	11. For Status of POWER、LOS、PON、LAN1~4、2.4Ghz、5Ghz、USB
USB	1 x USB3.0

## ○ Interface Parameter

PON interface	<ul style="list-style-type: none"> <li>• 1*XPON port(EPON PX20+ and 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> </ul>
Wavelength	• Tx1310nm,Rx 1490nm
Optical interface	• SC/APC connector
LAN interface	• 4 x 10/100/1000Mbps auto adaptive Ethernet interfaces, Full/Half, RJ45 connector
USB interface	• USB 3.0, Transmission Rate: 4.8Gbps
WLAN interface	<ul style="list-style-type: none"> <li>• Compliant with IEEE802.11b/g/n/ac</li> <li>• 2.4GHz Operating frequency: 2.400-2.483GHz (WiFi 4)</li> <li>• 5.0GHz Operating frequency: 5.150-5.825GHz (WiFi 5 wave 2)</li> <li>• WiFi:2*2 MIMO,,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~-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

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 and 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>• Support max 128 users</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>
Security	<ul style="list-style-type: none"> <li>• Support NAT, Firewall</li> <li>• Support IPv4/IPv6 dual stack</li> <li>• Support SIP Protocol</li> </ul>
Other funtion	<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>