

XPON Gigabit Fiber CATV ONT

NT-ONT-2802ACT-VS

2GE + WiFi5 + CATV + USB3.0



Description:

The Nanda Technologies NT-2802ACT (2GE+WiFi5+CATV XPON ONT) is designed to meet the FTTH and triple play service requirements of fixed network operators. The ONT is based on a high-performance chipset (Realtek) technology solution, supporting IEEE802.11b/g/n/ac WIFI technology and other Layer 2/Layer 3 functions. The ONT supports the OAM/OMCI protocol and can configure or manage various services of the ONT on the VSOL OLT.

The ONU has high reliability and is easy to manage and maintain. It has QoS guarantees for different services and international technical standards such as IEEE802.3ah, ITU-T G.984.

Features:

- XPON Dual Mode
- IPv4/IPv6 Stack
- Support EasyMesh protocol
- WiFi 5 Dual Band 1200Mbps



Specifications:

Interface	
Parameter	Specification
PON interface	1 XPON port (EPON PX20+ & GPON Class B+) SC single mode, SC/APC connector TX optical power: 0~+4dBm RX sensitivity: -27dBm Overload optical power: -3dBm (EPON) or -8dBm(GPON) Transmission distance: 20Km TX wavelength: 1310nm RX wavelength: 1490nm, 1550nm (CATV)
User interface	2 x GE, Auto-negotiation, RJ45 ports 1 x USB3.0
CATV interface	Optical receiving wavelength: 1550±10nm Optical input range: +2~-18dBm Optical reflection loss: ≥40dB RF frequency range: 47~1000MHz RF output impedance: 75Ω RF output level and AGC range: • ≥81±2dBuV @+1~-10dBm • ≥79±2dBuV @ 0~-11dBm • ≥77±2dBuV @-1~-12dBm • ≥75±2dBuV @-2~-13dBm • ≥73±2dBuV @-3~-14dBm • ≥71±2dBuV @-4~-15dBm MER: ≥32dB (-14dBm optical input)
WIFI interface	Compliant with IEEE802.11b/g/n/ac WiFi: 2.4GHz 2x2, 5.8GHz 2x2, 5dBi antenna, rate up to 1.167Gbps, Multiple SSID TX power: 2.4GHz: 23dBm, 5GHz: 24dBm RX power: 2.4GHz: HT40-MCS7 -72dBm, 5GHz: VHT80 MCS9 <-62dBm

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Function	
Parameter	Specification
O&M	OAM / OMCI, Telnet, WEB, TR069 Support full management of HGU functions by Multicom OLT
Connect Mode	Support bridge, router & bridge / router mixed mode
QoS	Support 4 queues Support SP, WRR, 802.1P, and DSCP
Data Service Functions	Full speed non-blocking switching 2K MAC address table 8 full range VLAN ID Support VLAN tag, untag, transparent, trunk, translation mode Integrated port monitoring, port mirroring, port rate limiting, port SLA Support auto polarity detection of Ethernet ports (AUTO MDIX) Support IGMP v1 / v2 / v3 snooping / proxy and MLD v1 / v2 snooping / proxy
Wireless	Integrated 802.11b/g/n/ac Authentication: WEP / WAP-PSK (TKIP) / WAP2-PSK (AES) Modulation type: DSSS, CCK, and OFDM Encoding scheme: BPSK, QPSK, 16QAM, and 64QAM Easymesh
L3	IPv4, IPv6, and IPv4/IPv6 dual stack DHCP / PPPOE / Static Static route, DHCP Server NAT / DMZ / DDNS / Virtual Server
Security	Support Firewall Support Mac filter Based on MAC or URL Support ACL

Hardware	
Parameter	Specification
Dimension	178mm × 120mm × 30mm (L×W×H)
Net weight	0.28Kg
Operating condition	Operating temp: -10 ~ +55°C Operating humidity: 5 ~ 95% (non-condensing)
Storing condition	Storing temp: -40 ~ +70°C Storing humidity: 5 ~ 95% (non-condensing)
Power adapter	DC 12V, 1A, external AC-DC power adaptor
Power supply	≤12W
Interfaces	2GE + WiFi5 + CATV + USB3.0
Indicators	PWR, PON, LOS, WAN, LAN1, LAN2, 2.4G, 5G, CATV, USB