

## MN-CATVDUAL ONU Product Specifications

### Product introduction

The XPON ONU MN-CATVDUAL is a state-of-the-art optical network unit that combines CATV, network, and dual-band WiFi functions. This device provides users with high-speed internet access, digital TV, and reliable wireless connectivity all in one unit.

Using advanced XPON technology, this ONU delivers lightning-fast internet speeds and stable connectivity, while the CATV function offers access to high-quality digital TV channels.

Furthermore, the dual-band WiFi function allows users to connect wirelessly to the internet using either the 2.4GHz or 5GHz band, making it easy to access online content from anywhere within the range of the device.

### Product Pictures



## Product features

- Support EPON/GPON mode and switch mode automatically
- GPON:Compliance with IEEE 802.3ah & itu-t g.984.x standard
- GPON:8 T-CONTs,32 GEM Ports
- Integrate OMCI(GPON)/OAM(EPON) and TR-069 remote configuration and maintenance
- Layer 3 Home Gateway/CPE features with Hardware NAT, support Multiple WAN, Route/Bridge mode, etc
- Layer 2 Switching, support 802.1Q VLAN, 802.1P QOS, Bandwidth Control, Spanning Tree, etc
- Support PPPoE/ Static IP/ DHCP
- Bi-directional FEC
- Support IPv4, IPv6 and IPv4/IPv6
- Support firewall level Settings, support based on URL/MAC/ IP/ address frame filtering
- Support multicast IGMP v2 proxy/ snooping, support MLD proxy/ snooping
- Qos supports PQ, WRR, and CAR queue scheduling
- Provide Maximum rate 300Mbps 2.4GHz Wireless interface,and Maximum rate 866Mbps 5.8GHz Wireless interface, ,2T2R external antenna, support multiple SSID Settings
- Support DDSN, ALG, DMZ and UPNP
- Support CATV interface for Video Service, support to turn off CATV functionality

## Product Specification

Hardware Specifications	
Size (L*W*H)	mm (L) *mm (W) *mm (H)
Optical signal access	1*GPON/EPON
User interface	4GE+2.4G/5.8G WLAN+1USB+CATV
Indicator light	POWER、PON、LOS、LAN1、LAN2、LAN3、LAN4、USB、2.4G、5G、WPS、CATV
Button	Power switch Button, Reset Button, WLAN Button, WPS Button
Weight	300g
Power adapter input	100V~240V AC, 50Hz~60Hz
Power Supply requirement	12V DC, 1.5A
Power consumption	<10w
Working temperature	-10°C ~ +45°C
Environment humidity	5% ~ 95% (Non-condensing)
PON Interface	
Module type	SC/APC
Working wavelength	PON: up 1310nm, down 1490nm ; CATV: 1550nm
TX Optical power value	0.5~4dBm
RX Optical power value	Receiver sensitivity: -27dBm
Transmission distance	0~20km
Transmission rate	GPON:Up 1.244Gbps; down 2.488Gbps EPON:Up 1.244Gbps; down 1.244Gbps
Ethernet interface	
Interface type	4*RJ45
Interface parameters	4*10/100/1000Mbps auto adaptive Ethernet interfaces
Wireless	
Working mode	IEEE 802.11 b/g/n/AC

## specification

Antenna pattern	External 2*2T2R External antenna
Antenna gain	5dBi
Wireless bandwidth	Support 20MHz/40MHz/80MHz
Interface rate	2.4G WLAN: Maximum rate 300Mbps 5.8G WLAN: Maximum rate 866Mbps
SSID	Up to 4 SSID broadcasts are supported
<b>CATV Interface</b>	
Optical receiving wavelength	1550±10nm
Optical reflection loss	≥45dBm
RF, WDM, optical power	+2~-15dBm
RF frequency range	47~1000MHz, RF output impedance: 75Ω
RF output level	78dBuV
AGC range	0~-12dBm
MER	≥32dB@-15dBm