



## **MN-CATVW6**

**4GE LAN +1 VOIP + 1 CATV+  
1800M WIFI6 XPON ONU  
Product Specification**

## Product Overview

MN-CATVW6 model ONU has built-in two-layer switching function and three-layer routing function. With compact structure and small appearance, it is a kind of FTTH optical network unit with high performance and low power consumption, which is very suitable for the application requirements of various data services in FTTH networking scenarios of various operators. MN-CATVW6 is an XPON product that can be adapted to EPON and GPON networks without replacing equipment and firmware.

## Product Specifications

Hardware Specifications	
Size	205*140*30mm
Optical signal access	1*GPON/EPON
User interface	4GE LAN +1 VOIP + 1CATV+2.4G &5.5G WIFI 6
Indicator light	POWER/PON/LOS/LAN1/LAN2/LAN3/LAN4/TEL1/USB 2.4G/5G/WPS/CATV
Button	Power switch Button, Reset Button, WLAN Button, WPS Button
Weight	300g
Power adapter input	100V ~ 240VAC, 50Hz ~ 60Hz
PowerSupply requirement	12V DC, 1.5A
Power consumption	<10w
Working temperature	-10°C ~ +45°C
Environment humidity	5% ~ 95% (Non-condensing)
PON Interface	
Module type	Class B+ SC/APC
Working wavelength	PON: up 1310nm, down 1490nm ,CATV: 1550nm
TX Optical power value	0.5 ~ 4dbm
RX Optical power sensitivity	-28dBm
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/AX
Antenna pattern	External 2*2T2R External antenna
Antenna gain	5dBi
Wireless bandwidth	Support 20MHz/40MHz/80MHz
Interface rate	Maximum rate 1775Mbps
SSID	Up to 4 SSID broadcasts are supported

## POTS interface

Interface type	1* RJ11
Voice agreement	SIP
Codecs	G.711/G.723/G.726/G.729
Integrated circuit protocol	Gr-909 protocol is applicable

## CATV Interface

Optical receiving wavelength	1550±10nm
Optical reflection loss	≥45 dBm
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

## 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
- Bi-directional FEC
- 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 1775Mbps Wireless interface, 2T2R external antenna, support multiple SSID Settings
- Support DDNS, ALG, DMZ and UPNP
- Provide POTS interface, support SIP protocol , POTS integrated circuit test complies GR-909
- Support CATV interface for Video Service , support to turn off CATV functionality

## Highlights

- Dual band Wi-Fi, Superior performance of Wireless 11n and 11ac Transmission
- Compatible with 95% Third-party OLTs (Including Huawei/ZTE/Fiberhome and so on) • Support EPON/GPON mode and switch mode automatically
- Support Route PPPoE/DHCP/Static IP and Bridge mode
- Support CATV interface for Video Service , supporting remote control by OLT.
- Support ONU auto-discovery/Link detection/remote upgrade of software
- Support IPv4/IPv6 dual mode
- Support Firewall function and IGMP multicast feature
- Support LAN IP and DHCP Server configuration
- Support Port Forwarding and Loop-Detect

## Interface

Compatible with OLT Huawei/ZTE/Fiberhome



- 1 CATV
- 2 WPS
- 3 WLAN
- 4 USB
- 5 LAN
- 6 TEL
- 7 RES
- 8 POWER
- 9 DC
- 10 PON

# Networking application

Typical access scheme: FTTH

Typical services: broadband Internet access, WIFI

