

MN-CATV2 ONU Product Specifications

Product introduction

XPON ONU MN-CATV2 is a cutting-edge optical network unit that offers high-speed internet access, digital TV and wireless connectivity all in one device.

This ONU is designed to provide CATV, network and WiFi functions, making it a versatile solution for households and businesses that require multiple services from a single device.

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

Additionally, the built-in WiFi function allows users to connect to the internet wirelessly, 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
- 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 300Mbps 2.4GHz Wireless interface,2T2R external antenna, support multiple SSID Settings,
- Support DDSN, ALG, DMZ and UPNP
- Support CATV interface for Video Service

Product Specification

Hardware Specifications	
Size (L*W*H)	168mm (L) *130mm (W) *28mm (H)
Optical signal access	1*GPON/EPON
User interface	1GE+1FE+2.4G WLAN +CATV
Indicator light	POWER、PON、LOS、LAN1、LAN2、 、WIFI、WPS 、CATV
Button	Power switch Button, Reset Button, WLAN Button, WPS Button
Weight	230g
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	Class B+ SC/APC
Working wavelength	up 1310nm, down 1490nm
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	2* RJ45
Interface parameters	1*10/100/1000Mbps and 1*10/100Mbps
Wireless	
Working mode	IEEE 802.11 b/g/n
Antenna pattern	External 2T2R External antenna
Antenna gain	5dBi

MN-CATV2 Bridge + gateway ONU product specification

Wireless bandwidth	Support 20MHz/40MHz
Interface rate	Maximum rate 300Mbps
SSID	Up to 4 SSID broadcasts are supported
CATV Interface	
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