

MDU Type EPON ONU-FD108BN series



Product overview

FD108BN series is designed for FTTB/FTTO application. FD108BN series has 8 10/100BASE-T ports ,1 PON port, They support 1000Base-PX20+ standard with 1:64 maximum optical splitting ratio and 20km distance.

They work together with EPON OLT could realize flexible network structure and maintenance and provide total FTTx solutions.

The MDU adopt metal shell, and with thunder stroke protection, prevent dust and heat dissipation, they are good for placed in outdoor cabinet or residents corridor, basement , etc.

FD108BN series supports POE power supply mode, which is suitable for passive installation; At the same time, it supports BBU battery backup power management, large current quick charge, over charge and floating charge. When the external power supply network broke, the battery power supply could work.

Functional Feature

- Support port-based rate limitation and bandwidth control.
- In compliant with IEEE802.3ah and IEEE802.3af Standard.
- Electricity port supports POE switch power supply
- 1 to 8 ports support POE power supply (electricity port is compatible with the IEEE802.3af standard)
- Power consumption can be automatically divide when power supply is more users.
- Support BBU battery backup power management, large current quick charge, over charge and floating charge
- Up to 20KM transmission Distance
- Support data encryption, group broadcasting, port Vlan separation ,RSTP, etc.
- Support Dynamic Bandwidth Allocation (DBA)
- Support ONU auto-discovery/Link detection/remote upgrade of software;
- Support VLAN division and user separation to avoid broadcast storm;
- Support various LLID configuration and single LLID configuration .Different user and different service could provide different QoS by means of different LLID channels.
- Support power-off alarm function ,easy for link problem detection
- Support broadcasting storm resistance function

- Support port isolation between different ports
- Support ACL and SNMP to configure data packet filter flexibly
- Specialized design for system breakdown prevention to maintain stable system
- Support software online upgrading
- EMS network management based on SNMP ,convenient for maintenance

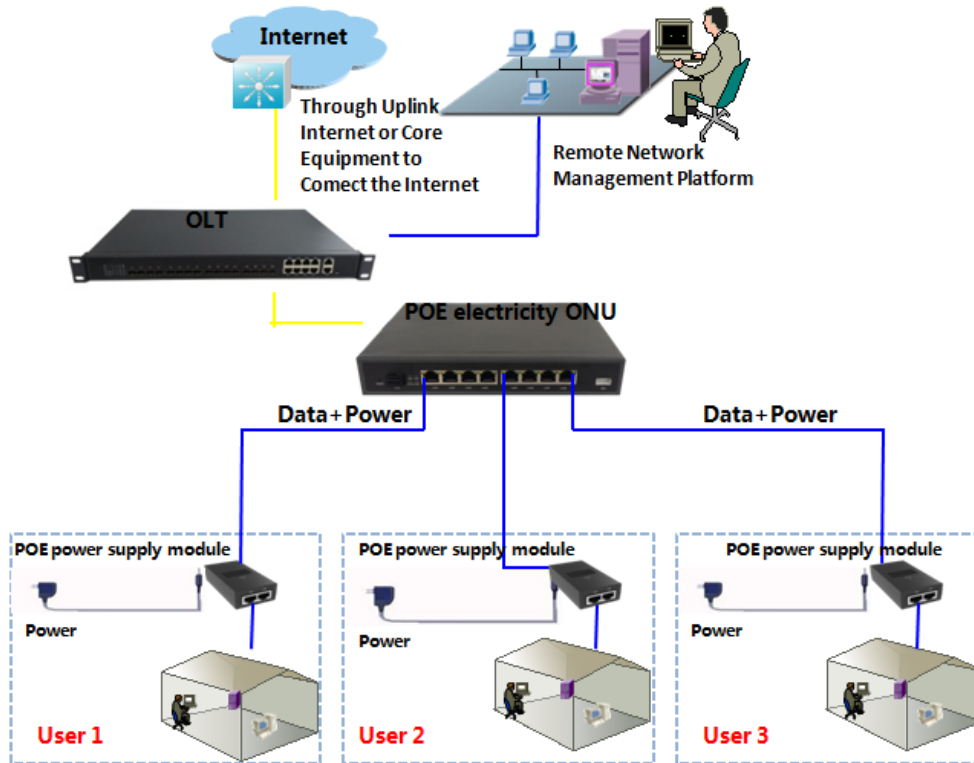
Specification

Item	Parameter
PON Interface	1 EPON optical interface Meet 1000BASE-PX20+ standard Symmetric 1.25Gbps upstream/downstream SC single-mode fiber, split ratio: 1:64 Transmission distance 20KM
User Interface	8*10/100M auto-negotiation, Full/half duplex mode RJ45 connector, Auto MDI/MDI-X 100m distance
Power Interface	~220VAC Power supply, 50Hz~60Hz 12V power supply, optional BBU: Charge and discharge interface, optional POE: 8*FE interface POE electricity, optional
PON Optical Parameter	Wavelength: Tx 1310nm, Rx1490nm Tx Optical Power: -1~4dBm Rx Sensitivity: -27dBm Saturation Optical Power: -3dBm Connector Type: SC Optical Fiber: 9/125µm single-mode fiber
Data Transmission Parameter	PON Throughput: Downstream 950Mbps; Upstream 930Mbps Packet Loss Ratio: <1*10E-12 latency: <1.5ms
Business Capability	Layer 2 wire speed switching Support VLAN TAG/UNTAG, VLAN conversion Support Port-based speed limitation Support Priority classification Support storm control of broadcast Support RSTP
Network Management	Support IEEE802.3 QAM, ONU can be remotely managed by OLT Support Remote management through SNMP and Telnet Local management
Management Function	Status monitor, Configuration management, Alarm management, Log management
LED Indicator	PWR: Power up or down OPTIN: Optical Link Status LINK: ONU Registered POE: Ethernet by electric Status LAN: Link Status of Ethernet Interface
Shell	Metal shell
Power consumption	<4.2W
Dimension	220×151×36mm
Weight	0.9kg

Environmental Specifications	Operating temperature: -10~+55°C Operating humidity: 10% to 90% (Non-condensing) Storage temperature: -40 to 85 °C Storage humidity: 10% to 90% (Non-condensing)
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Application

- ◇ Typical Solution: FTTB/FTTO
- ◇ Typical Business: INTERNET、IPTV、VOD、IP Camera



Ordering Information

Product Name	Product Model	Product description
MDU Type EPON ONU	FD108BN	8*FE Ethernet interface, 1*EPON interface, Metal shell, 220VAC Power supply
	FD108B-N1	8*FE Ethernet interface, 1*EPON interface, Metal shell, 220VAC Power supply, 8 FE interface POE (PD)
	FD108B-N2	8*FE Ethernet interface, 1*EPON interface, Metal shell, 220VAC Power supply; support BBU
	FD108B-N3	8*FE Ethernet interface, 1*EPON interface, Metal shell, 220VAC Power supply, 8 FE interface POE (PD); support BBU