



## OP-D8000POE 8FE MDU Type POE EPON ONT



OPTOSTAR OP-D8000POE series is designed for FTTB/FTTO application. OP-D8000POE 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. 8FE EPON ONU OP-D8000POE series supports POE power supply mode, which is suitable for passive installation; At the same time, 8FE EPON ONU 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.

## Features

- 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

## Parameter

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

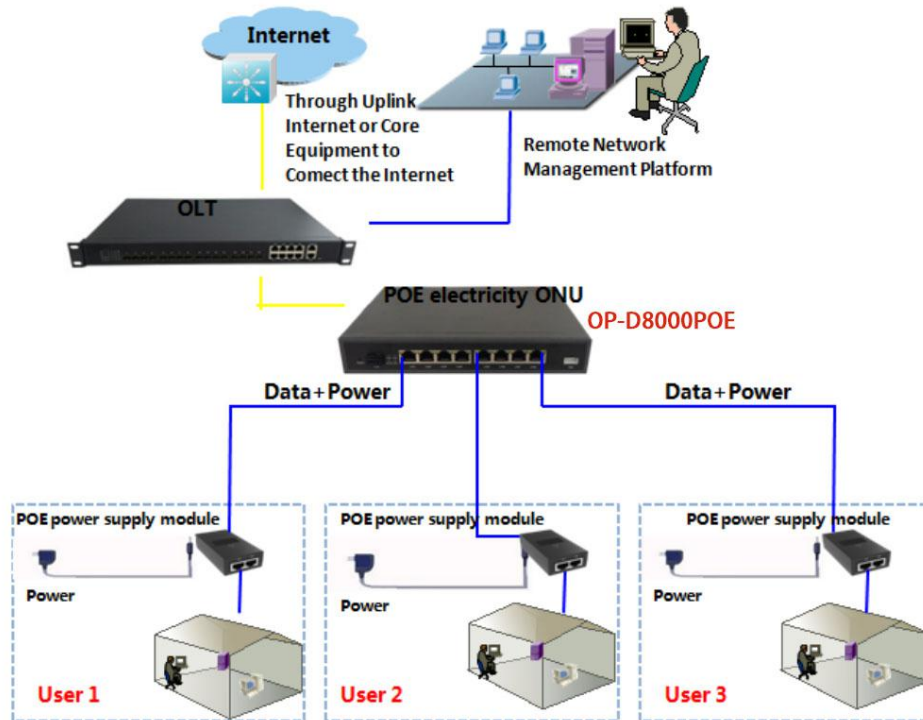
	100m distance
Power Interface	<p>~220VAC Power supply, 50Hz~60Hz</p> <p>12V power supply, optional</p> <p>BBU: Charge and discharge interface, optional</p> <p>POE: 8*FE interface POE electricity, optional</p>
PON Optical Parameter	<p>Wavelength: Tx 1310nm, Rx1490nm</p> <p>Tx Optical Power: 0~4dBm</p> <p>Rx Sensitivity: -27dBm</p> <p>Saturation Optical Power: -3dBm</p> <p>Connector Type: SC</p> <p>Optical Fiber: 9/125μm single-mode fiber</p>
Data Transmission Parameter	<p>PON Throughput: Downstream 950Mbps; Upstream 930Mbps</p> <p>Packet Loss Ratio: &lt;1*10E-12 latency: &lt;1.5ms</p>
Business Capability	<p>Layer 2 wire speed switching</p> <p>Support VLAN TAG/UNTAG, VLAN conversion</p> <p>Support Port-based speed limitation</p> <p>Support Priority classification</p> <p>Support storm control of broadcast</p> <p>Support RSTP</p>
Network Management	<p>Support IEEE802.3 QAM, ONU can be remotely managed by OLT</p> <p>Support Remote management through SNMP and Telnet Local management</p>

Management	Status monitor, Configuration management, Alarm management,
Function	Log management
LED Indicator	<p>PWR: Power up or down</p> <p>OPTIN: Optical Link Status</p> <p>LINK: ONU Registered</p> <p>POE: Ethernet by electric Status</p> <p>LAN: Link Status of Ethernet Interface</p>
Shell	Metal shell
Power consumption	<4.2W
Dimension	220×151×36mm
Weight	0.9kg
Environmental Specifications	<p>Operating temperature: -10~+55℃</p> <p>Operating humidity: 10% to 90% (Non-condensing)</p> <p>Storage temperature: -40 to 85℃</p> <p>Storage humidity: 10% to 90% (Non-condensing)</p>

## Application

- ✧ Solution: FTTH, FTTO
- ✧ Business: Broadband Internet、IPTV、VOD、IP Camera

## Network Construction



**Figure: OP-D8000POE Application Diagram**

## Ordering Information

Product Name	Product Model	Descriptions
MDU Type EPON ONU	OP-D8000POE	8x10/100M auto-negotiation Ethernet interface+POE, 1 EPON interface, ABS casing,external power supply adapter