

# 1U 2PON EPON OLT

## Brief Introduction

2PON OLT is the EPON OLT optical line terminal equipment. It can support 2 EPON PON ports and connect 128 ONU at most (by 1:64 splitter), and provides 2 uplink GE optic SFP slots and 2 uplink copper SFP slots.



Front View

## Functional Feature

### High Stability with low cost and flexible networking construction

- Two fixed PON slots with 1:64 splitting ratio at most
- FD1002S could support 128 ONU maximally
- Maximum Transmission distance:20km (1:32 splitting ratio)

### Comprehensive Network Management

- In band and out band management;
- Support Telnet and local command lines management;
- EMS management based on standard SNMP protocol;
- Support online upgrading.

### Powerful QOS Function

- Realize stable and efficient dynamic bandwidth allocation (DBA)

### Various OAM Function

- ONU auto-detection and registration;
- Support LGMP and Snooping function;
- Support port flow control and flow shaping.

## Specification

Item	Parameter	Specification
Ports	Uplink Port	QTY: 4 Physical interface: 10/100/1000M auto-negotiable,RJ45:2pcs;

		GE SFP ,1000BASE-LX :2pcs
	PON Port	QTY: 2 Physical Interface: SFP Slots Connector Type: 1000BASE-PX20+ Max splitting ratio: 1: 64
	Management Port	1*10BASE-T out-band management port 1*Console management port
	OLT PON SFP	Transmission Distance: 20KM PON port speed: symmetrical 1.25Gbps Waves: 1490nm TX,1310nm RX TX Optical power : +2.5~+7dBm RX Sensitivity: -27dBm
<b>Management</b>	Management Mode	SNMP,Telnet,CLI Support EMS centralized management based on C-Data development interface independently.
	Management Function	Fan Group Detecting Port Status monitoring and configuration management; Layer-2 switch configuration such as Vlan, Trunk ,RSTP,IGMP ,QOS, etc; EPON management function: DBA ,ONU authorization, ACL ,QOS ,etc; Online ONU configuration and management User management Alarm management
<b>Functionality</b>	Layer-two Switch	Support port Vlan and protocol Vlan Support Vlan tag/Untag ,vlan transparent transmission; Support 4096 VLAN Support 802.3dd trunk RSTP QOS based on port ,VID,TOS and MAC address IGMP Snooping 802.x flow control Port stability statistic and monitoring
	EPON Function	Support port-based rate limitation and bandwidth control; In compliant with IEEE802.3ah Standard Up to 20KM transmission Distance Support data encryption, group broadcasting, port Vlanseparation ,RSTP,etc. Support Dynamic Bandwidth Allocation (DBA) Support ONU auto-discovery/Link detection/remote

		<p>upgrade of software;</p> <p>Support VLAN division and user separation to avoid broadcast storm;</p> <p>Support various LLID configuration and single LLID configuration .Different user and different service could provide different QoS by means of different LLID channels.</p> <p>Support power-off alarm function ,easy for link problem detection</p> <p>Support broadcasting storm resistance function</p> <p>Support port isolation between different ports</p> <p>Support ACL and SNMP to configure data packet filter flexibly</p> <p>Specialized design for system breakdown prevention to maintain stable system</p> <p>Support dynamic distance calculation on EMS online</p> <p>Support RSTP,IGMP Proxy</p>
<b>Backplane Bandwidth</b>		13G
<b>Physical Features</b>	Dimension Weight	440mmX208mmX44mm (LxWxH) GW:4kg NW:3KG
	Power Supply Consumption	90~264VAC 16W
	Operating Environment	Working Temperature: 0~50℃ Storage Temperature: -40~85℃ Relative Humidity: 5~90%(non-condensing)

## Order Information

Product	Model	QTY	Unit	Configuration
1U EPON OLT	FD1002S	1	Set	1U EPON OLT with 2 PON slots ,220V(110V) AC power supply; The default configuration is 2pcs of OLT SFP without uplink SFP.
Uplink SFP	SFP-GFX-D20	1~2	PC	Optional; when the uplink port is optical port , it would be taken into consideration. The default configuration is 20KM dual fiber .
OLT PON SFP	OLT-SFP-PX20	1~2	PC	The default configuration is 2pcs;at least 1pc ;2 pcs at most.