# 1U 8PON Port Pizza-Box EPON OLT

Pizza-Box OLT series products is 1U high 19 inch rack mount product. The features of the OLT are small, convenient, flexible, easy to deploy, high performance. It is appropriate to deploy in an compact room environment.

The OLT can use for "Triple-Play", CPN, IP Camera, Enterprise LAN and IOT applications. It is a high performance products.

FD1216S provides 4GE(copper) and 4GE optical interface, 2*10Gb uplink interface, and 8 EPON ports for downstream. It can support 512 ONUs under 1:64 splitter ratio.

## Specifications

| Item | | FD1216S |
|---|---|---|
| Chassis | Rack | 1U 19 inch standard box |
| Uplink Port | QTY | 10 |
| | Copper | 10/100/1000M auto-negotiable,RJ45:4pcs |
| | Optical interface | 4 GE |
| | 10Gb uplink interface | 2*10Gb |
| PON Port | QTY | 8 |
| | Physical Interface | SFP Slots |
| | Connector Type | 1000BASE-PX20+ |
| | Max splitting ratio | 1:64 |
| Management Ports | | 1*100BASE－TX outband port; 1CONSOLE port |
| PON Port Specification （Apply to C-DataPON module） | Transmission Distance | 20KM |
| | PON port speed | Symmetrical 1.25Gbps |
| | Wavelength | 1490nm TX,1310nm RX |
| | Connector | SC/PC |
| | Fiber Type | 9/125μm SMF |
| | TX Power | +2.5～+7dBm |
| | Rx Sensitivity | -27dBm |
| | SaturationOptical Power | -6dBm |
| 10Gb SFP+ Port Specification （Apply to C-Data 10Gb module） | Transmission Distance | 10KM |
| | PON port speed | 8.5-10.51875Gbps |
| | Wavelength | 1310nmTX，1310nmRX |
| | Connector | LC |
| | Fiber Type | Single mode with dual fiber |
| | TX Power | -8.2~+0.5 dBm |
| | Rx Sensitivity | -12.6dBm |

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| Management Mode | SNMP, Telnet, CLI management mode. |
| Management Function | Fan Group Detecting<br>Port Status monitoring and configuration management;<br>Layer-2 switch configuration such as Vlan, Trunk ,RSTP,IGMP ,QOS, etc;<br>EPON management function: DBA ,ONU authorization, ACL ,QOS ,etc;<br>Online ONU configuration and management<br>User management<br>Alarm management |
| Layer-two Switch | Support port VLan and protocol Vlan<br>Support Vlan tag/Untag ,vlan transparent transmission;<br>Support 4096 VLAN<br>Support 802.3dd trunk<br>RSTP<br>QOS based on port ,VID,TOS and MAC address<br>IGMP Snooping<br>802.x flow control<br>Port stability statistic and monitoring |
| EPON Function | Support port-based rate limitation and bandwidth control;<br>In compliant with IEEE802.3ah Standard<br>Up to 20KM transmission Distance<br>Support data encryption, group broadcasting, port Vlan separation, RSTP, etc.<br>Support Dynamic Bandwidth Allocation (DBA)<br>Support ONU auto-discovery/Link detection/remote upgrade of software;<br>Support VLAN division and user separation to avoid broadcast storm;<br>Support various LLID configuration and single LLID configuration .Different user and different service could provide different QoS by means of different LLID channels.<br>Support power-off alarm function ,easy for link problem detection<br>Support broadcasting storm resistance function<br>Support port isolation between different ports<br>Support ACL and SNMP to configure data packet filter flexibly<br>Specialized design for system breakdown prevention to maintain stable system<br>Support dynamic distance calculation on EMS online<br>Support RSTP,IGMP Proxy |
| Dimension | 440*350*44(mm*mm*mm） |
| Weight | 6kg |
| Power Supply — 220VAC | AC: 90V～240V，47/63Hz |
| Power Supply — -48DC | DC:-36V～-72V |
| Power Consumption | 50W |
| Operating Environment — Working Temperature | 0～50℃ |
| Operating Environment — Storage Temperature | -40～85℃ |
| Operating Environment — Relative Humidity | 5～90%(non-condensing) |