# 1U 8PON Port Pizza-Box EPON OLT



FD1208S-R1 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.

FD1208S-R1 provides 1 USB interface, 4GE(copper) and 4GE optical interface, 4\*10Gb uplink interface, and 8 EPON ports for downstream. It can support 512 ONUs under 1:64 splitter ratio.

**Specifications**

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| **Item** | | **FD1208S-R1** |
| Chassis | Rack | 1U 19 inch standard box |
| Uplink Port | QTY | 12 |
| Copper | 10/100/1000M auto-negotiable,RJ45:4pcs |
| Optical interface | 4 GE |
| 10Gb uplink interface | 4\*10Gb |
| PON Port | QTY | 8 |
| Physical Interface | SFP Slots |
| Connector Type | 1000BASE-PX20+ |
| Max splitting ratio | 1:64 |
| USB Port | QTY | 1 |
| Connector Type | TYPE-3 |
| Management Ports | | 1\*100BASE－TX outband port; 1 CONSOLE port |
| PON Port Specification  （Apply to  C-Data PON 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 |
| Saturation Optical 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 |
| Management Mode | | SNMP, Telnet, CLI management mode. |
| 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 |
| 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 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 dynamic distance calculation on EMS online  Support RSTP,IGMP Proxy |
| Layer-three Route | | Support static unicast  Support static multicast  Support RIP routing protocol  Support dynamic multicast protocol with active source |
| Backplane Bandwidth | | 112G |
| Dimension | | 440\*300\*44(mm\*mm\*mm） |
| Weight | | 5.5kg |
| Power Supply | 220VAC | AC: 100V～240V，47/63Hz |
| -48DC | DC:-36V～-72V |
| Power Consumption | | 58W |
| Operating Environment | Working Temperature | 0～50℃ |
| Storage Temperature | -40～85℃ |
| Relative Humidity | 5～90%(non-condensing) |