# 1U 16PON 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-R1 provides 1 USB interface, 4GE(copper) and 4GE optical interface, 2\*10Gb uplink interface, and 16 EPON ports for downstream. It can support 1024 ONUs under 1:64 splitter ratio.

**Specifications**

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| **Item** | **FD1216S-R1** |
| 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 | 16 |
| Physical Interface | SFP Slots |
| Connector Type | 1000BASE-PX20+ |
| Max splitting ratio | 1:64 |
| USB Port | QTY | 1 |
| Connector Type | TYPE-C |
| Management Ports | 1\*100BASE－TX outband port; 1CONSOLE 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 DetectingPort 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 managementUser managementAlarm management |
| Layer-two Switch | Support port VLan and protocol VlanSupport Vlan tag/Untag ,vlan transparent transmission;Support 4096 VLANSupport 802.3dd trunk RSTP QOS based on port ,VID,TOS and MAC addressIGMP Snooping802.x flow controlPort stability statistic and monitoring |
| EPON Function | Support port-based rate limitation and bandwidth control;In compliant with IEEE802.3ah StandardUp to 20KM transmission DistanceSupport 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 detectionSupport broadcasting storm resistance functionSupport port isolation between different ports Support ACL and SNMP to configure data packet filter flexiblySpecialized design for system breakdown prevention to maintain stable systemSupport dynamic distance calculation on EMS onlineSupport RSTP,IGMP Proxy |
| Layer-three Route | Support static unicastSupport static multicastSupport RIP routing protocolSupport dynamic multicast protocol with active source |
| Backplane Bandwidth | 88G  |
| Dimension | 440\*350\*44(mm\*mm\*mm） |
| Weight | 6kg |
| Power Supply | 220VAC | AC: 90V～240V，47/63Hz |
| -48DC | DC:-36V～-72V |
| Power Consumption | 70W |
| Operating Environment | Working Temperature | 0～50℃ |
| Storage Temperature | -40～85℃ |
| Relative Humidity | 5～90%(non-condensing) |