

## **1U 8PON Port Pizza-Box EPON OLT**



FD1208S-R2 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-R2 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**

Item		FD1208S-R2
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
OSB POIL	Connector Type	Type-C
Management Por	ts	1*100BASE—TX outband port; 1 CONSOLE port
	Transmission Distance	20KM
DON Down	PON port speed	Symmetrical 1.25Gbps
PON Port	Wavelength	1490nm TX,1310nm RX
Specification	Connector	SC/PC
(Apply to	Fiber Type	9/125μm SMF
C-Data PON module)	TX Power	+2.5~+7dBm
	Rx Sensitivity	-27dBm
	Saturation Optical Power	-6dBm
10Gb SFP+ Port	Transmission Distance	10KM
Specification	PON port speed	8.5-10.51875Gbps
(Apply to	Wavelength	1310nmTX, 1310nmRX
C-Data 10Gb	Connector	LC



TX Power  Rx Sensitivity  -12.6dBm  Management Mode  SNMP, Telnet, CLI management mode.  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 Support 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  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)	module)	Fiber Type	Single mode with dual fiber
Management Mode    SNMP, Teinet, CLI management mode.		TX Power	
Management Mode    SNMP, Telnet, CLI management mode.		Rx Sensitivity	-12.6dBm
Fan Group Detecting Port Status monitoring and configuration management; Layer-2 switch configuration such as Vian, Trunk, RSTP, IGMP, QOS, etc; EPON management function: DBA, ONU authorization, ACL, QOS, etc; Online ONU Configuration and management User management Alarm management Alarm management Support Vian and protocol Vian Support 802.3 dd trunk RSTP QOS based on port, VID, TOS and MAC address IGMP Snooping 802.x flow control Port stability statistic and monitoring Support dort port vian tags (Viata) statistic and monitoring Support port-based rate limitation and bandwidth control; In compliant with IEEE802.3 ah Standard Up to 20KM transmission Distance Support ONU auto-discovery/Link detection/remote upgrade of software; Support Dynamic Bandwidth Allocation (DBA) Support ONU auto-discovery/Link detection/remote upgrade of software; Support VIAN division and user separation to avoid broadcast storm; Support VIAN division and user separation to avoid broadcast storm; Support VIAN division and user separation to avoid broadcast storm; Support by means of different LID configuration and single LLID configuration Different user and different service could provide different QoS by means of different LID channels. Support power-off alarm function, easy for link problem detection Support power-off alarm function, easy for link problem detection Support power off alarm function, easy for link problem detection Support power off alarm function, easy for link problem detection Support power off alarm function, easy for link problem detection Support power off alarm function, easy for link problem detection Support power off alarm function, easy for link problem detection Support power off alarm function, easy for link problem detection Support power off alarm function, easy for link problem detection Support power off alarm function, easy for link problem detection Support power off alarm function easy for link problem detection Support tall condition on EMS online Support static multicast Support static multicast	,		
Alarm management   Support VICan and protocol VIan   Support VICAN   Support VICAN   Support 4096 VICAN   Support 4096 VICAN   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   Support port-based rate limitation and bandwidth control; in compliant with IEEE802.3ah Standard   Up to 20KM transmission Distance   Support Dynamic Bandwidth Allocation (DBA)   Support ONU   auto-discovery/Link   detection/remote upgrade of software;   Support Dynamic Bandwidth Allocation (DBA)   Support ONU   auto-discovery/Link   detection/remote upgrade of software;   Support Dynamic Bandwidth Allocation (DBA)   Support ONU   auto-discovery/Link   detection/remote upgrade of software;   Support Dynamic Bandwidth Allocation (DBA)   Support ONU   auto-discovery/Link   detection/remote upgrade of software;   Support Dynamic Bandwidth Allocation (DBA)   Support Dynamic Dynamic Dynamic Provide different port   Support Dynamic Dynamic Provide Dynamic Provide Dynamic Provide Dynamic Provide Dynamic Provide Dynamic Provide Dynamic Dynami	Management Function		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
Layer-two Switch   Support Vlan tag/Untag, vlan transparent transmission; Support 98.0.3 xdd trunk			Alarm management
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 DNU auto-discovery/Link detection/remote upgrade of software; Support VAIA division and user separation to avoid broadcast storm; Support various LLID configuration and single LLID configuration. Different user and different service could provide different QSD by means of different LLID channels. Support power-off alarm function, easy for link problem detection Support power-off alarm function power-off support power-off alarm function power-off a	Layer-two Switch		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
Layer-three Route  Support static unicast Support RIP routing protocol Support dynamic multicast protocol with active source  Backplane Bandwidth  116G  Dimension  Weight  4.50kg  DC: 11V~14V  Power Supply  220VAC  AC: 100V~240V, 47/63Hz  -48DC  DC:-36V~-72V  Power Consumptior  S8W  Working Temperature  Operating Environment  Support static unicast Support RIP routing protocol Support dynamic multicast Support RIP routing protocol Support dynamic multicast Support RIP routing protocol Support static unicast Support static unicast Support static unicast Support RIP routing protocol Support dynamic multicast Support RIP routing protocol Support static multicast Support RIP routing protocol Support RIP routing protocol Support RIP routing protocol Support static multicast Support RIP routing protocol Support RIP routing protocol Support S	EPON Function		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
Dimension         440*296*44(mm*mm*mm)           Weight         4.50kg           Support BBU         DC: 11V~14V           220VAC         AC: 100V~240V, 47/63Hz           -48DC         DC:-36V~-72V           Power Consumption         58W           Operating Environment         Vorking Temperature         0~50°C           Storage Temperature         -40~85°C	Layer-three Route		Support static unicast Support static multicast Support RIP routing protocol
Weight         4.50kg           Power Supply         Support BBU         DC: 11V~14V           220VAC         AC: 100V~240V, 47/63Hz           -48DC         DC:-36V~-72V           Power Consumption         58W           Operating Environment         Working Temperature         0~50 °C           Storage Temperature         -40~85 °C	Backplane Bandwidth		116G
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Power Supply	Weight		4.50kg
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Power Consumption 58W		220VAC	AC: 100V∼240V,47/63Hz
Operating Environment Working Temperature $0\sim50^{\circ}\text{C}$ Storage Temperature $-40\sim85^{\circ}\text{C}$		-48DC	DC:-36V~-72V
Operating Storage Temperature -40~85°C	Power Consumption		58W
Storage Temperature -40~85 °C Environment		Working Temperature	0~50℃
		Storage Temperature	-40∼85°C
		Relative Humidity	5~90%(non-condensing)