

## Introduction

V1600D series EPON OLT products are 1U height 19 inch rack mount products. The features of the OLT are small, convenient, flexible, easy to deploy, high performance. It is appropriate to be deployed in compact room environment. The OLTs can be used for “Triple-Play”, VPN, IP Camera, Enterprise LAN and ICT applications. There are four members in this series, V1600D2、V1600D4、 V1600D8 and V1600D16.



V1600D2

V1600D2 provides 2GE(copper) and 2SFP slots independent interface for uplink, and 2\*EPON OLT ports for downstream. It can support 128 ONUs under 1:64 splitter ratio.



V1600D4

V1600D4 provides 4GE(copper) and 4SFP slots independent interface for uplink, and 4\*EPON OLT ports for downstream. It can support 256 ONUs under 1:64 splitter ratio.



V1600D8

V1600D8 provides 8GE(copper) and 8SFP slots independent interface for uplink, and 8\*EPON OLT ports for downstream. It can support 512ONUs under 1:64 splitter ratio.

V1600D16 provides 4 GE(copper) and 8 SFP or 4 SFP and 4 SFP+ slots independent interfaces for uplink, and 16\*EPON OLT ports for downstream. It can support 1024 ONUs under 1:64 splitter ratio.

## Technical Specifications

Item		V1600D2	V1600D4	V1600D8	V1600D16
Chassis	Rack	1U 19 inch standard box			
1000M Uplink Port	QTY	4	8	16	12
	Copper 10/100/1000M auto-negotiation	2	4	8	4
	SFP 1000M, Duplex (independent)	2	4	8 Or 4	8 Or 4
	SFP+ <b>SFP+ is 10GE</b> (independent)	0	0	4	4
EPON Port	QTY	2	4	8	16
	Physical Interface	SFP Slot	SFP Slot	SFP Slot	SFP Slot
	Connector Type	1000BASE-PX20+	1000BASE-PX20+	1000BASE-PX20+	1000BASE-PX20+

	Max splitting ratio	1:64	1:64	1:64	1:64
Management Ports		1*10/100BASE-T out-band port, 1*CONSOLE port			
PON Port Specification	Transmission Distance	20KM			
	EPON port speed	Symmetrical 1.25Gbps			
	Wavelength	TX 1490nm, RX 1310nm			
	Connector	SC/PC			
	Fiber Type	9/125 μm SMF			
	TX Power	+2~+7dBm			
	Rx Sensitivity	-27dBm			
	Saturation Optical Power	-6dBm			
Management Mode		SNMP, Telnet ,CLI,WEB			
Management Function		<p>Fan Group Detecting;  Port Status monitoring and configuration management;  Layer2 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.</p>			
Layer2 Switch		<p>16K Mac address  Support 4096 VLANs;  Support port VLAN and protocol VLAN;  Support VLAN tag/Un-tag ,VLAN transparent transmission;  Support Vlan translation and QinQ;  Support storm control based on port  Support port isolation  Support port rate limitation  Support 802.1D and 802.1W;  Support static LACP;  QOS based on port,VID,TOS and MAC address;  Access control list;  IEEE802.x flow control;  Port stability statistic and monitoring.  <b>Onu switch in the same pon interface</b></p>			

Multicast	Icmp snooping 256 IP Multicast Groups;			
DHCP	Dhcp server Dhcp relay Dhcp snooping			
Layer 3 Route	Arp proxy Static route 1024 hardware Host Routes; 512 hardware Subnet Routes;			
EPON Function	Support port-based rate limitation and bandwidth control; In compliant with IEEE802.3ah standard; Up to 20KM transmission Distance; Support data encryption, multi-cast, 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.			
Dimension(L*W*H)	442mm*200mm*43.6mm		442mm*320mm*43.6mm	
Weight	3.1kg	4.2kg	4.5kg	6.5kg
Power Supply	220VAC	AC:90~264V, 47/63Hz		Double Power Module Hot Backup
Power Consumption	25W	30W	52W	102W
Operating Environment	Working Temperature	-10~+55℃		
	Storage Temperature	-40~+85℃		
	Relative Humidity	5~90%(non-conditioning)		