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Key Features:

- STP/RSTP/MSTP
- IGMP Snooping
- VLAN Translation/Q-in-Q
- Port Aggregation
- Dynamic Bandwidth Allocation
- DHCP Snooping
- ACL
- Port Mirroring
- L3 Static Route, RIP/OSPF
- SNMP/Telnet/CLI/WEB/SSH



V1600D16

Layer3 16 Ports EPON OLT



Introduction:

V-SOL V1600D16 series EPON OLT products are 1U height 19 inch rack mount products. The features of the OLT are small, convenient, flexible, easy to deploy and high performance. It is appropriate to be deployed in compact room environment. The OLT's can be used for "Triple-Play", VPN, IP Camera, Enterprise LAN and Internet service provider applications.

V1600D16 provides 4GE(copper) and 8*SFP slots independent interface for uplink, and 16*EPON OLT ports for downlink. It can support overall 1024 ONU's with 64 ONU's per PON port.

Technical Specifications:

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/UPC
- Fiber Type: 9/125µm SMF

Management Mode

- SNMP/Telnet/CLI/WEB/SSH v2

Management Function

- Fan Group Control;
- Port Status monitoring and configuration management;

- Online ONU configuration and management;
- User management, Alarm management

Layer 2 Feature

- 16K MAC address
- Support port VLAN
- Support 4096 VLANs
- Support VLAN tag/Un-tag, VLAN transparent transmission, QinQ
- Support IEEE802.3d trunk
- Support RSTP, MSTP
- QoS based on port, VID, TOS and MAC address
- IEEE802.x flow control
- Port stability statistic and monitoring;
- Support P2P Function

Multicast

- IGMP snooping
- 256 IP Multicast Groups

DHCP

- DHCP server
- DHCP relay
- DHCP snooping

Layer 3 Features

- ARP proxy
- Static route
- 1024 hardware Host Routes
- 512 hardware Subnet Routes
- Support IPv1/v2, OSPFv2/v3
- Support PPPoE+

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Technical Specifications:

Security Management

- Support IEEE802.1x, Radius, Tacacs+
- Support DHCP Snooping, DHCP Opiton82, IP Source Guard
- Support HTTPs, SSHv2

IPv6 Feature

- Support IPv6 Neighbor Discovery, SLAAC Snooping
- Support DHCPv6 Server, DHCPv6 Relay, DHCPv6 Snooping
- Support IPV6 Static Route
- Support IPV6 Dynamic Route Protocol: RIPng, OSPF6
- Support MLD V1/V2
- Support IPv6 ACL
- Support IPv6 SNMP, Telnet, Https, SSH management

EPON Function

- Support port-based rate limitation and bandwidth control
- In compliant with IEEE802.3ah standard
- 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 to configure data packet filter flexibly
- Specialized design for system breakdown prevention to maintain stable system
- Support dynamic distance calculation on EMS online

Item		V1600D16
Chassis	Rack	1U 19 inch standard box
Uplink Port	Port count	12
	Copper	4*10/100/1000M auto-negotiation
	SFP(1GE)	4
	SFP+(10GE)	4
EPON Port	QTY	16
	Physical Interface	SFP Slots
	Max splitting ratio	1:64
	Supported PON module level	PX20, PX20+, PX20++, PX20+++
Backplane Bandwidth (Gbps)		128
Port Forwarding Rate(Mpps)		95.232
Dimension (LxWxH)		442mm*320mm*43mm
Weight		6.5kg
Power Supply		AC 100~240 V, 50/60 Hz
DC Power Supply		DC: -48V
Power Consumption		95W
Operating Environment	Working Temperature	-20~+60°C
	Storage Temperature	-40~+70°C
	Relative Humidity	5~95% (non-condensing)

Ordering Information:

Product Name	Product Description	Power Configuration	Accessories
V1600D16	16*EPON,4*RJ45+ 4*SFP+4*(SFP+)	1*AC power 2*AC power 1*AC power + 1* DC power	EPON SFP PX20++ module EPON SFP PX20+++ module 1G SFP module 10G SFP+ module