

- **2PON EPON**
OLT Model : VP1600A



Dimensions:440mm*260mm*44mm (L*W*H)

Description:2PON EPON OLT

Introduction

VP1600A is a miniaturization rack-mounted OLT, which is designed for small scale EPON access applications. It is a miniaturization and modularization GEAPON OLT, broadband fiber access system platform. It is fully compliant to IEEE802.3-2005 and Chinese technical requirements of Ethernet Passive Optical Network (EPON). This product supports integrated access service, such as broadband surf-netting, IP voice, IPTV, CATV and etc.

VP1600A adopts 1U height 19 inch standard structure, with 2 fixed PON ports. Its features are high reliability, low cost, easy to use, flexible deployment, etc.

VP1600A is with built-in powerful switch module, which supports full service Gigabit wire speed forwarding and rich Layer 2 protocol. With built-in network management module, supports in-band and out-of-band network management; Supports CLI, SNMP and centralized network management, graphical network management platform EMS.

VP1600A supports maximum 128 ONU, covers 20 KM, which is generally deployed in central offices and premise community offices and built up network with UNI ONU through ODN. According to different user scenarios, this product can satisfy various access application requirements of FTTB, FTTC, FTTH, etc. It's the best choice for low budget EPON access network.

Features

► Miniaturization, Cost Low, Flexible Deployment

VP1600A is with 2 fixed PON ports, each PON port supports the maximum splitting ratio 1:64. It can support maximum 128 ONU. The max transmission distance is 20KM (<1:32 splitter) . VP1600A adopts the 1U 19 inch standard structure, small volume, strong environment adaptability. It suits the small and medium size, low density ONU access network deployment.

► Layer 2 Aggregation Switch

VP1600A is with built-in powerful switch module, which supports full service Gigabit wire speed forwarding and supports rich Layer 2 protocol. 4 Gigabit uplink ports, 2 optical interfaces and 2 Ethernet interfaces, supports port VLAN, flexible QinQ, port aggregation, provide variously flexible choices for operator building up network.

► QOS Guarantee

VP1600A OLT Units adopt the DBA dynamic bandwidth allocation function base on hardware implementation, with reliability and high-efficiency features. The system supports each ONU configures multi-LLID and several priority level scheduling queues in uplink and downlink, which fundamentally ensures the high priority service to get the best QOS Guarantee.

► **Rich OAM Function**

VP1600A system supports ONU auto-detecting and auto-registration, single link auto-looping test function; Supports port-based and protocol-based VLAN, IGMP Proxy and Snooping function. Supports port-based ACL packet filtering, packet classification function. It is with rich operable and manageable features, such as port-based flow control, flow shaping and etc.

► **Complete Network Management Function**

Support the centralized management of our integrated network management platform EMS.

Support local command line management, SNMP management.

Support in-band and out-of- band network management.

EMS network management bases on C/S architecture design, and possesses the complete network management function. Support automatic network topology, manual topology modification; System alarm and alert log filtering and save; Operation log classification searching, save and output, data base backup, recovery, service performance real time monitoring and history searching. Support the OLT, ONU software online update.

► **RSimple Installation , Easy Maintenance, Plug and Playich OAM Function**

VP1600A is easy to use. By default, it can be in proper operation when starts up. ONU will auto-register, no need the extra configuration. After the equipments deployed, their operation condition can be monitored and necessary service configuration can be operated through remote management platform.

Specification

Item	Parameter	Description
Interface	Uplink interface	2 *100/1000M auto adaptive Ethernet interfaces, RJ45 2*Gigabit SFP interface, 1000BASE-LX
	PON interface	Physical Interface: 2*SFP slots Interface type: 1000BASE-PX20 Maximum splitting ratio: 1:64
	Management interface	1 10BASE-T out-of-band interface, 1 CONSOLE local management interface
	PON interface specification (apply to offered PON modules)	Transmission Distance: 20KM Port Rate: Symmetrical 1.25Gbps Wavelength: Rx 1490nm, Tx 1310nm Tx optical power : +2~+7dBm Rx sensitivity: -27dBm Saturation optical power: -6dBm
Network Management	Network management methods	Support SNMP, TELNET, local network management centralized management of our integrated network management platform EMS
	Network Management Ability	Fan detection Ports status monitoring, configuration management Lay 2 switch configuration management, such as VLAN、TRUNK、RSTP、IGMP、QOS etc. EPON configuration management, such as DBA bandwidth allocation, ONU identification, ACL configuration, QOS etc. Accessed ONU configuration and management (Refer to ONU specification) User Management Alarm Management

Function	Layer 2 Switch	Support port VLAN, protocol VLAN; Support VLAN TAG/UNTAG, VLAN pass-through, VLAN switch; Support 4096 pieces of VLAN Support 802.3ad link aggregation (TRUNK) Support RSTP rapid spanning tree Support QOS of port-based, VID, TOS, MAC addresses Support IGMP Snooping Support 802.1x flow control Support port performance statistics
	EPON	Comply with IEEE802.3ah EPON protocol Support downlink data encryption Support DBA bandwidth allocation Support standard OAM and extended OAM Support ONU authentication Support dynamic distance measurement Support ACL data packet filter Support QOS, service flow classification and marking Support RSTP、IGMP Proxy
Physical Specification	Dimensions & Weight	Dimensions:440mm×260mm×44mm (Length*Width*Height) Weight:3.1 kg
	Power Supply & Power Consumption	Supply Voltage : 90~264VAC Power consumption: 16W
	Operation Environment	Operating temp: 0~50°C Storing temp: -40~85°C Operating humidity: 10~90% (non-condensation)