

Introduction

V1600D-MINI is a low cost EPON OLT product, it is 1U height, and can be expanded into 19 inch rack mount products by hanging ears. The features of the OLT are small, cheap, convenient, flexible, easy to deploy. 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.



V1600D-MINI

The low cost V1600D-MINI hasn't L2 or L3 switch chip for uplink ports, so each uplink port is connected to an EPON port directly, each PON port behaves as an independent EPON OLT port and there is no traffic switching between PON Ports and each PON port forwards packets to and receive packets from one dedicated uplink port. V1600D-MINI provides the full management functions for ONU according to CTC standard. Each of the 4 EPON OLT ports is fully compliant with IEEE 802.3ah standard and CTC 2.1 specification for SerDes, PCS, FEC, MAC, MPCP State Machines, and OAM extension implementation. Both upstream and downstream are operational at 1.25Gbps data rates.

Technical Specifications

Item		V1600D-MINI
Chassis	Rack	1U height box
1000M Uplink Port	QTY	4
	Copper	1000M Duplex
EPON Port	QTY	4
	Physical Interface	SFP Slots
	Connector Type	1000BASE-PX20+
	Max splitting ratio	1:64
Management Ports		1*10/100BASE-T out-band port, 1*CONSOLE port
PON Port Specification	Transmission Distance	20KM(PX20+), 40KM(PX20++)

	EPON port speed	Symmetrical 1.25Gbps
	Wavelength	TX 1490nm, RX 1310nm
	Connector	SC/PC
	Fiber Type	9/125 μ m SMF
	TX Power	+2~+7dBm
	Rx Sensitivity	-27dBm
	Saturation Optical Power	-6dBm
Management Mode		SNMP, Telnet and CLI
Management Function		Fan Group Detecting; Port Status monitoring and configuration management; Layer2 configuration such as VLAN ,QOS, etc; EPON management function: DBA,ONU authorization, etc; Online ONU configuration and management; User management; Alarm management.
Layer2 Function		Up to 16 K MAC address; Support port VLAN and protocol VLAN; Support VLAN tag/Un-tag ; VLAN transparent transmission; Port stability statistic and monitoring.
EPON Function		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 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; Specialized design for system breakdown prevention to maintain stable system; Support dynamic distance calculation on EMS online;
Dimension(L*W*H)		224mm*200mm*43.6mm
Weight		3.1kg
Power Supply	220VAC	AC:90~264V, 47/63Hz
Power Consumption		15W
Operating	Working Temperature	-10~+55 $^{\circ}$ C

Environment	Storage Temperature	-40~+85℃
	Relative Humidity	5~90%(non-conditioning)

三、V1600D-MINI system application

