V1600D-MINI

Layer2 4 Ports EPON OLT

Key Features:

- Small Size and Cost Effective OLT
- Fast ONU Register
- Credit Time Control
- Support ONU auto-discovery/auto-configuration/remote upgrade of firmware
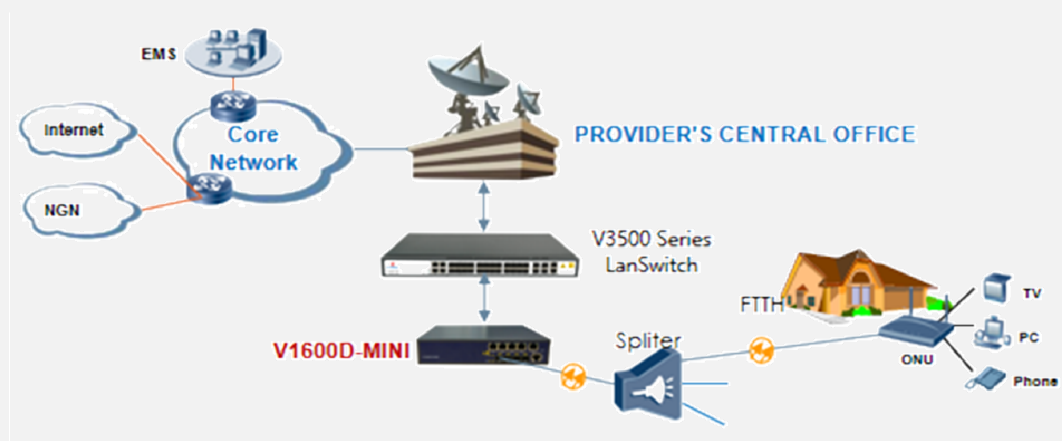- WEB/CLI/EMS Management

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, 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.

The V1600D-MINI provide 4 GE interface for uplink, and 4 EPON ports for downstream. It can support 256 ONU under 1:64 splitter ratio. Each uplink port is connected to a EPON port directly, each PON port behaves as an independent, that 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 2.1specification for SerDes, PCS, FEC, MAC, MPCP State Machines, and OAM extension implementation. Both upstream and downstream are operational at 1.25 Gbps data rates.

Application Chart:

V1600D-MINI
4 Ports EPON OLT

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 and CLI

Management Function
- Fan Group Control
- Port Status monitoring and configuration
- Layer-2 configuration such as Vlan, Trunk，RSTP, IGMP, QOS, etc

- EPON management: DBA,ONU authorization,etc
- Online ONU Configuration & Management
- User management, Alarm management

Layer 2 Feature
- Up to 16 K MAC address
- Support port VLAN and VLAN 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
- Online dynamic distance calculation on EMS

Item		V1600D-MINI
Chassis	Rack	1U Height Box
Uplink Port	Port count	4
	Copper	4*10/100/1000M auto-negotiation
EPON Port	QTY	4
	Physical Interface	SFP Slots
	Max splitting ratio	1:64
	Supported PON module level	PX20, PX20+, PX20++, PX20+++
Backplane Bandwidth (Gbps)		116
Port Forwarding Rate(Mpps)		11.904
Dimension (LxWxH)		224mm*200mm*43.6mm
Weight		2kg
Power Supply		AC:90~264V, 47/63Hz
Power Consumption		15W
Operating Environment	Working Temperature	0~+50°C
	Storage Temperature	-40~+85°C
	Relative Humidity	5~90% (non-conditioning)

Ordering Information:

Product Name	Product Description	Power Configuration	Accessories
V1600D-MINI	4*EPON,4*RJ45	1*AC power	EPON SFP PX20++ module EPON SFP PX20+++ module