SOFTEL

OLT-E8V L3 EPON OLT
Data Sheet v1.5

➢ **Open to any brands of ONU**

➢ **Support RIP v1/v2, OSPFv2, IPv6**

➢ **Power Backup**

➢ **Easy to manage and friendly interface**

Product Overview

OLT-E8V provides 8*GE(copper) and 4*GE(SFP) +4*10GE(SFP+) slots independent

interface for uplink, and 8*EPON OLT ports for downstream. It can support 512 ONUs

under 1 : 64 splitter ratio.

1U height 19 inch rack mount, the features of the OLT are small, convenient, flexible, easy

to deploy, with 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.

Order Info

Product	User Interface	Uplink Interface	Dual Power
OLT-E4V	4*PON Ports	4*GE+4*GE(SFP)/10GE(SFP+)	NO
OLT-E8V	8*PON Ports	8*GE+4*GE(SFP)+4*10GE(SFP+)	YES
OLT-E16V	16*PON Ports	4*GE+4*GE(SFP)+4*10GE(SFP+)√	YES

Product Description

I). Functional Features

- Open to any brands of ONU
- Meet IEEE802.3ah standards and China's CTC3.0 standards
- Support DN, IPv6 Ping, IPv6 Telnet
- Support ACL based on source IPv6 address, destination IPv6 address, L4 port, protocol type
- Support static route, dynamic route RIP v1/v2, OSPF v2
- Friendly EMS/Web/Telnet/CLI/SSH management
- Support APP management and Fully open platform

2). Software Functions

- **Management Mode**
- SNMP, Telnet, CLI, WEB, SSH v1/v2
- **Management Function**
- Fan Group Control;
- Port Status monitoring and configuration management;
- Online ONU configuration and management;
- User management, Alarm management;
- **Layer 2 Function**
- 16K MAC addresses;
- Support port VLAN and protocol VLAN;
- Support 4096 VLANs;
- Support VLAN tag/Un-tag, VLAN transparent transmission, QinQ;
- Support IEEE802.3d trunk;
- Support RSTP;
- QoS based on port, VID, TOS, and MAC address;
- IEEE802.x flow control;
- Ports stability statistics and monitoring;
- Support P2P Function;
- **Multicast**
- IGMP snooping;
- 256 IP Multicast Groups;
- **IP Route**
- Support static route, Dynamic route RIP v1/v2, and OSPF;
- **Support IPv6**
- Support DN;
- Support IPv6 Ping, IPv6 Telnet;
- Support ACL based on source IPv6 address, destination IPv6 address, L4port, protocol type,
- Support MLD v1/v2 snooping(Multicast Listener Discovery snooping);

3). EPON Functions

- 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 the broadcast storm;
- Support various LLID configurations and single LLID configurations;
- Different users and different services 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;

Technical Parameters

Item		EPON OLT 8 Ports
Chassis	Rack	1U 19 inch standard box
1000M Uplink Port	QTY	16
	Copper	8*10/100/1000M auto-negotiation
	SFP (independent)	8*SFP slots
EPON Port	QTY	8
	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
	EPON port speed	Symmetrical 1.25Gbps
	Wavelength	TX 1490nm, RX 1310nm
	Connector	SC/PC
	Fiber Type	9/125μm 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 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.
Layer2 Switch		Support port VLAN and protocol VLAN; Support 4096 VLANs; Support VLAN tag/Un-tag ,VLAN transparent transmission, QinQ; Support IEEE802.3d trunk; Support RSTP; QOS based on port, VID, TOS and MAC address; IGMP Snooping; IEEE802.x flow control; 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 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*320mm*43.6mm
Weight		4.5kg
Power Supply	220VAC	AC:90~264V, 47/63Hz
Power Consumption		45W
Operating Environment	Working Temperature	-10~+55℃
	Storage Temperature	-40~+85℃
	Relative Humidity	5~90%(non-conditioning)