AS5004EL EPON 4 PON OLT

AS5008EL EPON 8 PON OLT

- ✓ Open to any brand of ONU
- ✓ Support RIP v1/v2、OSPF v2、IPv6
- ✓ Power backup
- ✓ Easy to manage and friendly interface

Product overview

AS5004/8EL series EPON OLT is 1U height 19 inch rack mount products. The features of the OLT are small, convenient, flexible, easy to deploy, highperformance. 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.

Product	User interface	Uplink interface
AS5004EL	4PON Port	4*1G PON+4*1G/10GE(SFP+)
AS5008EL	8PON Port	8*1G PON + 4*1G & 4*10G (SFP)+

functional characteristics

Satisfactory standard

- Meet ITU-T G984/G.988 standards
- Meet China's relevant EPON standards

Support IPv6 Function

- Support DN, IPv6 Ping, IPv6 Telnet
- Support ACL based on source IPv6 address, destination IPv6 address, L4 port, protocol type, etc.
- Support MLD v1/v2snooping

IP route

- Support static route, dynamic route RIP v1/v2、OSPFv2

Easy to manage

- Friendly EMS/Web/Telnet/CLI/SSH management
- CLI command style similar to mainstream manufacturers
- Support APP management

Fully open platform

- Open to any brand of ONU

High performance cost

- 1U height compact design
- Adopt mainstream chip scheme

Technical indicator

Item		AS5004EL	AS5008EL		
Chassis	Rack	1U 19 inch standard box			
1G/10G Uplink Port	QTY	4	8		
	Copper 10/100/1000M auto-negotiation	4	8		
	SFP 1GE	4	4(SFP+)		
	SFP+ 10GE		4 (GE)		
EPON Port	Physical Interface	SFP Slot			
	Connector Type	PX20+			
	Max splitting ratio	1:64			
Management Ports		1*10/100BASE-T out-band port, 1*CONSOLE port			
PON Port Specification (PX20+ module)	Transmission Distance	20KM			
	EPON port Speed	Upload & Download:- 1.25G			
	Wavelength	TX 1490nm, RX 1310nm			
	Connector	SC/UPC			
	Fiber Type	9/125μm SMF			
	TX Power	+2~+7dBm(PX20+)			
	Rx Sensitivity	-30dB(PX20+)			
	Saturation Optical Power	-6dBm			
Dimension(L*W*H)(mm)		442*200*43	442*200*43		
Weight(kg)		3.1	3.2		
AC Power Supply		AC:100～240V, 47/63Hz			
DC Power Supply(DC:-48V)		X	√		
Double Power Module Hot Backup		√			
Max PowerConsumption(W)		25	30		
Operating Environment	Working Temperature	0～+50℃			
	Storage Temperature	-40～+85℃			
	Relative Humidity	5~90%(non-conditioning)			

Technical indicator

AS5004/8EL : LED information

LED	ON	Blink	OFF
PWR	Thedevice is powered up	—	The device is powered down
SYS	Device isstarting	Device is running normal	Device is running abnormal
PON1～PON16	ONU is registered to the PON system	ONU is registering to the PON system	ONU is not registered to the PON system or ONU do not connect to OLT
SFP/SFP+	The device is connected tothe port	The device is ongoing data transmission	The device is not connected tothe port
Ethernet (green--ACT)	—	Port is sending or/and receiving data	—
Ethernet (yellow--Link)	The device is connected tothe port	—	The device is not connected tothe port

Software function

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;

Layer2 Function

- 16K Mac address;
- 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;
- Port stability statistic and monitoring;
- Support P2P Function;

Multicast

- IGMP snooping;
- 256 IP Multicast Groups;

Software function

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, L4 port, protocol type, etc;
- Support MLDv1/v2snooping(Multicast Listener Discovery snooping);

EPON Function

- Support port-based rate limitation and bandwidth control;
- In compliant with IEEE802.3ah standard;
- Up to 20KM transmission Distance;
- Supportdataencryption, multi-cast, port VLAN, separation, RSTP, etc;
- Support Dynamic Bandwidth Allocation (DBA);
- Support ONU auto-discovery/link detection/remote upgradeofsoftware;
- Support VLANdivision 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 tomaintain stable system;
- Support dynamic distance calculation on EMS online;

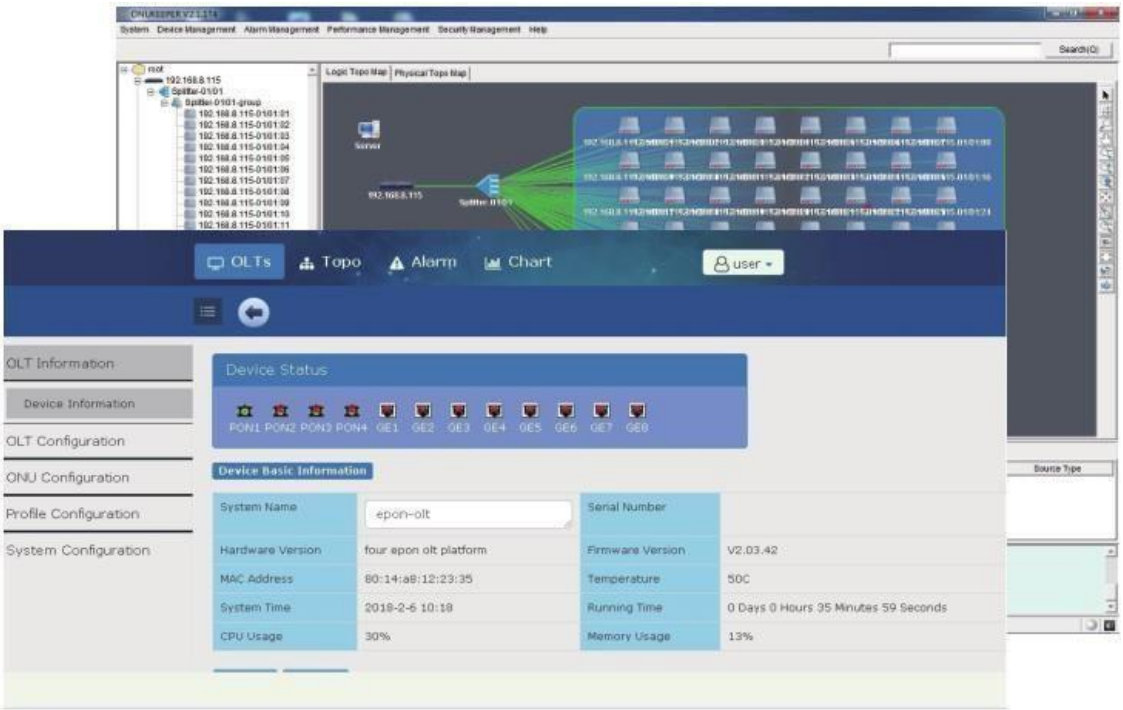
Software function

License Management	ONT limit	Limit the number of ONU registration, 64-1024. WhenthenumberofONU reachthemaxnumber permit, add new ONUtosystemwill be refused.
	Time limit	Limit system used time, 31days. Equipment trial license, after 31days of running time, all ONUs be set offline.
PON mac table		A mac table of PON, including mac address, VLAN id, PON id and ONU id for easier services checking, troubleshooting.
ONU management	Profile	Including ONU DBA, Service, VoIP,Alarm Profiles.
	Auto learn	ONU automatically discovery, register, online.
	Autoconfigure	All features can be automatically configured by profiles when ONUauto online—plug and play.
	Auto upgrade	The ONU firmware can be auto upgraded. Download ONUfirmware to OLT from web/tftp.
	Remote config	The powerful private OAM protocol provides remote HGU configuration including WAN, WiFi, POTS, etc.

EMS

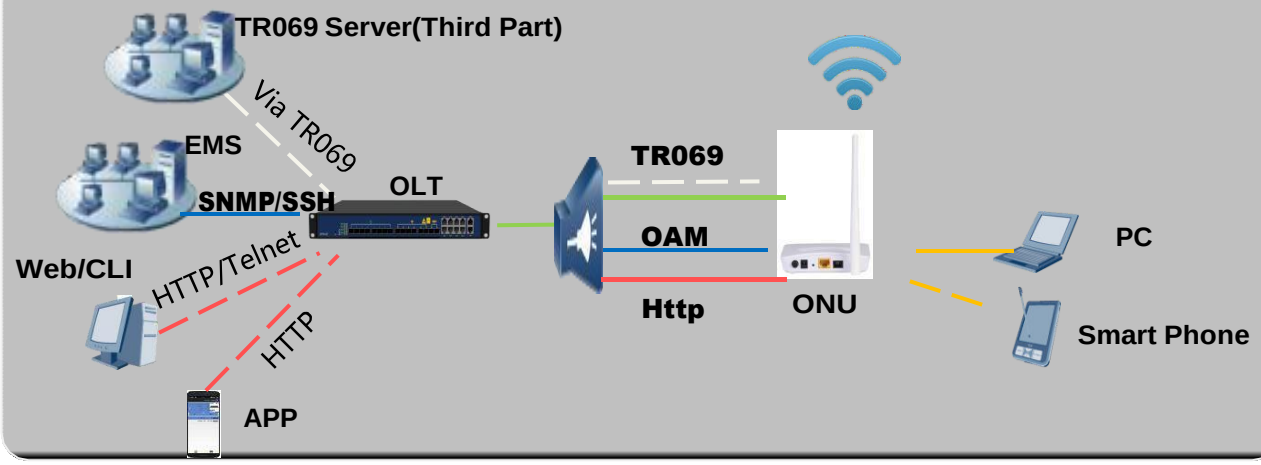
Key Features

- ✓ **Support C/S & B/S architecture**
- ✓ **Support auto topology or modify manually**
- ✓ **Add Trap Server to detect ONU automatically**
- ✓ **EMS can add and configure ONU automatically**
- ✓ **Add ONU positioninformation**
- ✓ **Support EMS APP**

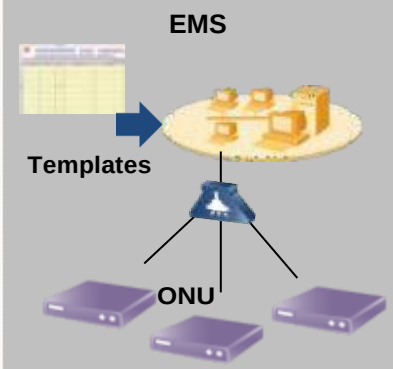


EMS

Support EMS/Web/Telnet(CLI)/TR069/SSH Configuration

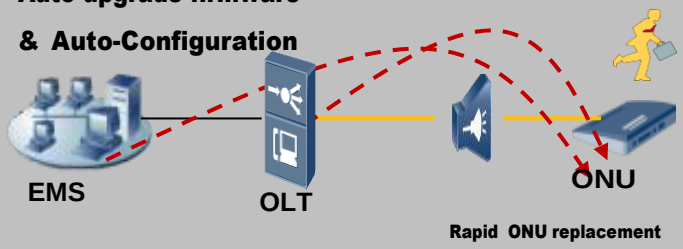


Support ONUs Plug&Play



Device Template for Auto-Configuration

Rapid operation and maintenance



Typical applicationdiagram