

### **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



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)+

## **6 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 APPmanagement

#### **Fully open platform**

• Open to any brand of ONU

#### **High performance cost**

- 1U height compact design
- Adopt mainstream chip scheme



## **Technical indicator**

ltem		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 SFP+ 10GE	4	4(SFP+)		
			4 (GE)		
EPON Port	Physical Interface	SFP Slot			
	Connector Type	PX20+			
	Max splitting ratio	1:64			
Management Ports	1*10/100BASE-T out-b	oand port, 1*CONSOLE port			
	Transmission Distance	20KM			
	EPON port Speed	Upload & Dow	nload:- 1.250	3	
	Wavelength	TX 1490nm, RX 1310nm			
PON Port Specification (PX20+ module)	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	l)(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)		Х			
Double Power Module Hot Backup		$\checkmark$			
Max PowerConsu	mption(W)	25 30			
Orientia	Working Temperature	0 <b>~</b> +50°C			
Operating Environment	Storage Temperature	-40∼+85°C			
	Relative Humidity	5~90%(non-conditioning)			



#### 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 to the 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 to the port



#### **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;
- Support data encryption, 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;

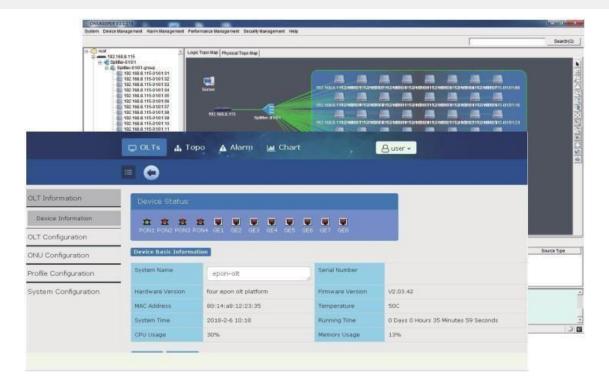


License Management	ONT limit	Limit the number of ONU registration, 64-1024. WhenthenumberofONU reachthemaxnumber permit, add new ONUtosystemwill be refused.	
	Time limit	Limit system used time, 31days. Equipment trial license, after 31days of running time, all ONUs be set offline.	
PON mac table		A mac 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 ONU firmware to OLT from web/tftp.	
	Remote config	The powerful private OAM protocol provides remote HGU configuration including WAN, WiFi, POTS, etc.	



#### **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





Charles     Charles <t< th=""><th>OLT Port     ORULine       Portbarre     HildminiStation     RDderStation       GED1     Lip     down       GED2     Lip     down       GED2     Lip     down       GED3     Lip     down       GED4     Lip     down       FVRM02     Lip     down</th><th></th><th></th><th>0.4.394-0</th></t<>	OLT Port     ORULine       Portbarre     HildminiStation     RDderStation       GED1     Lip     down       GED2     Lip     down       GED2     Lip     down       GED3     Lip     down       GED4     Lip     down       FVRM02     Lip     down			0.4.394-0
Perdularis     Fib.48tm (State)     PD / 447 (State)       GEO/T     Lip     dewin       GEO/Z     Lip     dewin       FPCND12     Lip     dewin       Lip     Lip     dewin	Perdusime     RidemicStands     PC-VerSide       GE071     Lip     down       GE022     Lip     down       GE023     Lip     down       GE024     Lip     down       GE025     Lip     down       GE026     Lip     down       DPCM271     Lip     Lip       DPCM271     Lip     Lip       DPCM271     Lip     down	EMS Syst		
GE01     Lp     dbwn       GE02     Lp     dbwn       GE03     Lp     dbwn       GE04     Lp     dbwn       GE05     Lp     dbwn       GE06     Lp     dbwn       GE06     Lp     dbwn       GE06     Lp     dbwn       GE07     Lp     dbwn       GE06     Lp     dbwn       GE07     Lp     dbwn       GE07     Lp     dbwn	GE01     up     down       GE02     up     down       GE03     up     down       GE04     up     down       GE05     up     down       GE06     up     down       GE06     up     down       GE07     up     down       GE07     up     down       GE06     up     down       GE07     up     down			
050/2     up     down       650/2     up     down       050/4     up     down       050/5     up     down       050/6     up     down       050/6     up     down       050/6     up     down       050/7     up     down       050/8     up     down       050/8     up     down       050/9     up     down       070/0/2     up     down       070/0/2     up     down	0502     up     dem       6503     up     dem       0504     up     dem       0505     up     dem       0506     up     dem       0507     up     dem       0508     up     dem       0509     up     dem			
GB03     up     down       GB04     up     down       GB05     up     down       FPOND     up     up       FPOND2     up     down	GEGG     Lip     down       GEGGS     Lip     down       EPOND1     Lip     Lip       EPOND2     Lip     down       EPOND2     Lip     down			
05014     up     down       05015     up     down       05016     up     down       05017     up     down       05018     up     down       05019     up     down       05010     up     down	05014     up     down       05015     up     down       05015     up     down       05016     up     down       05017     up     down       05018     up     down       05019     up     down       05019     up     down       05019     up     down       05019     up     down       05010     up     down			
0E015     up     down       0E015     up     down       0E017     up     down       0E018     up     down       0E019     up     down       0E019     up     down       0E010     up     down       0E010     up     down       0E0100     up     down	0E015     up     down       GE015     up     down       GE017     up     down       GE018     up     down       BPON071     up     up       EPON071     up     down       EPON071     up     down			
GEO/6     Lp     down       GEO/7     Lp     down       GEO/8     Lp     down       BPON01     Lp     down       EPON01     Lp     down       EPON01     Lp     down	GEO/6     up     down       GEO/7     up     down       GEO/8     up     down       BPON0/1     up     down       EPON0/1     up     down       EPON0/2     up     down	00014		
GE0/7     up     down       GE0/8     up     down       BPON0/1     up     up       EPON0/2     up     down	GE0/7     up     down       GE0/8     up     down       BPON0/1     up     up       EPON0/2     up     down       EPON0/3     up     down			
GEDIS up down EPOND/1 up up EPOND/2 up down EPOND/3 up down	GEDIS up down EPOND/1 up up EPOND/2 up down EPOND/3 up down	QE0/7		
EPOND/2 up down EPOND/3 up down	EPOND/2 up down EPOND/3 up down	GEDIS	чp	
EPONO/3 up down	EPONO/3 up down			
EPONDA up down EPONDA up down	EPCND/3 up down EPCND/4 up down			
EPONDA up down	EPONO14 up down	EPON0/3		
		EPON0/4	sep	down



