

AS50016G - GPON OLT

Data Sheet

Version V2.0



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1. Product Overview

AS50016G GPON OLT is 1U height 19 inch rack mount products. The features of the OLT are small, convenient, flexible, easy to deploy, 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.

2.Technical Specifications

For other technical specifications, see the following table :

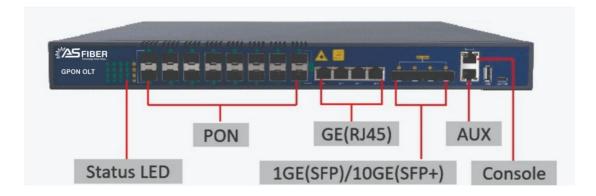
Product	PON Interface	Uplink	Chipset
AS50016G	16*GPON Port	4 $ imes$ GE(RJ45)+4 $ imes$ 10GE(SFP+)/GE(SFP)	Broadcom

1. Functional characteristics

Item	AS50016G GPON OLT	
Satisfactory standard	➢ Meet ITU-T G984/G.988 standards	
Sausiaciory standard	Meet China's relevant GPON standards	
Easy to Manage > Open to any brand of ONT		
Fully open platform	Support static route,	
Fully open platorin	Optional Support Dynamic route RIP v1/v2,OSPF v2	
High performance cost	IU height compact design	
High performance cost	 Adopt mainstream chip scheme 	



2. Product Appearance







Product Feature

	Item	AS50016G	
Chassis	Rack	1U 19 Inch Standard Box	
GE/10GE	QTY	8	
	RJ45(GE)	4	
Uplink Port	SFP(GE)/SFP+(10GE)	4	
	QTY	16	
GPON Port	Physical Interface	SFP Slots	
GPON Port	Connector Type	Class C++	
	Max splitting ratio	1:128	
USB Ports		1*USB2.0(Type A)+1*Console(Type C)	
Management Po	rts	1*10/100BASE-T out-band port, 1*CONSOLE port	
	Transmission Distance	20KM	
	GPON port speed	Upstream 1.244Gbps, Downstream 2.488Gbps	
PON Port	Wavelength	TX 1490nm, RX 1310nm	
Specification	Connector	SC/UPC	
(Class C++	Fiber Type	9/125µm SMF	
(Class C++ module)	TX Power	+4.5~+10dBm	
module)	Rx Sensitivity	-30dBm	
	Saturation Optical	-12dBm	
	Power	-1200111	
Dimension(L*W	/*H)(mm*mm*mm)	442*320*43.6	
Weight(kg)		4.5	
Power Supply 220VAC		AC:100~240V, 47/63Hz	
Double Power Module Hot Backup		\checkmark	
Max Power Consumption(W)		85	
Operating	Working Temperature	-0~+55℃	
Operating Environment	Storage Temperature	-40~+85℃	
Environment	Relative Humidity	5~90% (non-conditioning)	



3. LED information

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

4. Software Feature

Item	AS50016G GPON OLT	
Management Mode	SNMP,Telnet,CLI,WEB,SSH v1/v2;	
	 Fan Group Control; 	
	 Port Status monitoring and configuration management; 	
Management	 Online ONT configuration and management; 	
	 User management; 	
	> Alarm management;	
	> 32K Mac address;	
	Support 4096 VLANs;	
	 Support port VLAN and protocol VLAN; 	
	 Support VLAN tag/Un-tag ,VLAN transparent transmission; 	
	 Support VLAN translation and QinQ; 	
	 Support storm control based on port; 	
Layer2	 Support port isolation; 	
	 Support port rate limitation; 	
	➤ Support 802.1D and 802.1W;	
	 Support static LACP, Dynamic LACP; 	
	QoS based on port, VID, TOS and MAC address;	
	 Access control list; 	
	➢ IEEE802.x flow control;	



	 Port stability statistic and monitoring;
	> IGMP snooping;
Multicast	> 2048 IP Multicast Groups
DUCD	DHCP server, DHCP relay, DHCP snooping;
DHCP	DHCP option82;
	ARP proxy,4096 hardware Host Routes,4096 hardware Subnet Routes;
	Support 802.1X,Radius,Tacacs+;
Lover 2	Support IP source guard;
Layer 3	 Support static route;
	 Optional Support Dynamic route RIP v1/v2,RIPng;
	 Optional Support OSPF v2/v3;
	Support NDP;
	 Support IPv6 Ping,IPv6 Telnet,IPv6 routing;
IPv6	Support ACL based on source IPv6 address, destination IPv6 address,
	L4 port, protocol type, etc;
	 Support MLD v1/v2 snooping(Multicast Listener Discovery snooping);
	\succ Tcont DBA;
	➢ Gemport traffic;
	➢ In compliant with ITUT984.x standard;
	 Up to 20KM transmission Distance;
	Support data encryption, multi-cast, port VLAN, separation, RSTP, etc;
	 Support ONT auto-discovery/link detection/remote upgrade of software;
GPON Function	Support VLAN division and user separation to avoid broadcast storm;
	 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 RSTP,IGMP Proxy;

License Management	ONT limit	Limit the number of ONT registration, 64-1024, step 64. When
		the number of ONT reach the max number permit, add new
		ONT to system will be refused.
	Time limit	Limit system used time, 31days. Equipment trial license, after
		31 days of running time, all ONTs be set offline.
PON Mac Table		A MAC table of PON, including MAC address, VLAN id,
		PON id, ONT id, gemport id for easier services checking,
		troubleshooting.
ONT	D 61-	Including ONT, DBA, TRAFFIC, LINE, SERVICE, ALARM,
Management	Profile	PRIVATE profiles. All ONT features can be configured by

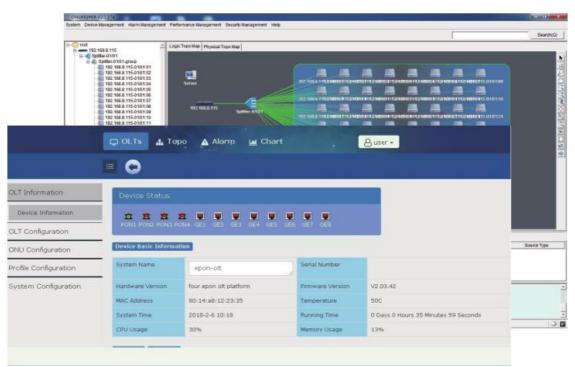


		profiles.
	Auto learn	ONT automatically discovery, register, online.
	Auto configure	All features can be automatically configured by profiles when
		ONT auto online—plug and play.
	Auto upgrade	The ONT firmware can be auto upgraded. Download ONT
		firmware to OLT from web/tftp/ftp.
	Remote config	The powerful private OMCI protocol provides remote HGU
		configuration including WAN, WiFi, POTS, etc.

5. EMS Feature

5.1. Key Features

- ✓ Support C/S & B/S architecture
- ✓ Support auto topology or modify manually
- ✓ Add Trap Server to detect ONT automatically
- ✓ EMS can add and configure ONT automatically
- ✓ Add ONT position information
- ✓ Suppot EMS APP







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