

V1600G1-B1 GPON OLT

DataSheet

Version V2.0



Release Date 2021-04-13

1. Product Overview

V1600G series GPON OLT products are 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:

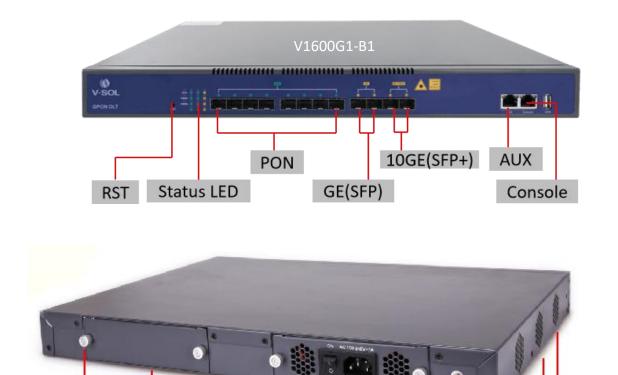
Product	PON Interface	Uplink	Chipset
V1600G1-B1	8*GPON Port	$2 \times GE(SFP)+2 \times 10GE(SFP+)$	BroadCom

1. Functional characteristics

Item	V1600G1-B1 GPON OLT
Satisfactory standard	Meet ITU-T G984/G.988 standards
Satisfactory standard	Meet China's relevant GPON standards
Easy to Manage	Open to any brand of ONT
Fully on an alotform	 Support static route,
Fully open platform	Optional Support Dynamic route RIP v1/v2,OSPF v2
High parformance cost	> 1U height compact design
High performance cost	 Adopt mainstream chip scheme

2. Product Appearance

Lock screw



GND

High-speed fan

Dual power backup

Product Feature

	Item	V1600G1-B1	
Chassis	Rack	1U 19 Inch Standard Box	
GE/10GE	QTY	4	
-	SFP(GE)	2	
Uplink Port	SFP+(10GE)	2	
	QTY	8	
GPON Port	Physical Interface	SFP Slots	
GPON Port	Connector Type	Class C+	
	Max splitting ratio	1:128	
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	
	Connector	SC/UPC	
Specification (Class C+	Fiber Type	9/125μm SMF	
(Class C+ module)	TX Power	+3~+7dBm	
module)	Rx Sensitivity	-30dBm	
	Saturation Optical Power	-12dBm	
Dimension(L*W	/*H)(mm*mm*mm)	442*220*43.6	
Weight(kg)		3.0	
Power Supply	220VAC	AC:100~240V, 47/63Hz	
DC Power Supp	ly(DC:-48V)	\checkmark	
Double Power N	Iodule Hot Backup	\checkmark	
Max Power Con	sumption(W)	45	
Omenations	Working Temperature	-0~+55°C	
Operating Environment	Storage Temperature	-40~+85°C	
Environment	Relative Humidity	5~90%(non-conditioning)	

3. LED information

LED	ON	Blink	OFF
PWR	The device is powered up		The device is powered
	The device is powered up		down
SYS	Device is starting	Device is running normal	Device is running
515	Device is starting	Device is running normal	abnormal
PON1~	ONT is registered to the	ONT is registering to the	ONT is not registered to
PONI ² PON8	ONT is registered to the	6 6	the PON system or ONU
FONO	PON system	PON system	do not connect to OLT
SFP/SFP+	The device is connected	The device is ongoing	The device is not
SFP/SFP+	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
PWR1/PWR2	Power module online and		Powr module offline or
(G0)	work normal.		not work

4. Software Feature

Item	V1600G1-B1 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;
	> 16K 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;
Layer 2	 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	> 256 IP Multicast Groups
DUCD	DHCP server, DHCP relay, DHCP snooping;
DHCP	DHCP option82;
	ARP proxy,1024 hardware Host Routes,512 hardware Subnet Routes;
	Support 802.1X,Radius,Tacacs+;
Layer 3	 Support IP source guard;
Layer 5	 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;

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