

# GPON OLT Series Datasheet v1.1





# ✓ Open to any brand of ONT ✓ Power backup ✓ Easy to manage and friendly interface

**Current Optronics Private Limited** 



### **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.

Product	User interface	Unlink interface
V1600G1	8PON Port	8*GE+6*GE(SFP)+2*10GE(SFP+)
V1600G2	16PON Port	8*GE+4*GE(SFP)/10GE(SFP+)



# **5** functional characteristics

#### **Satisfactory standard**

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

#### Easy to manage

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

#### **Fully open platform**

Open to any brand of ONT

#### **High performance cost**

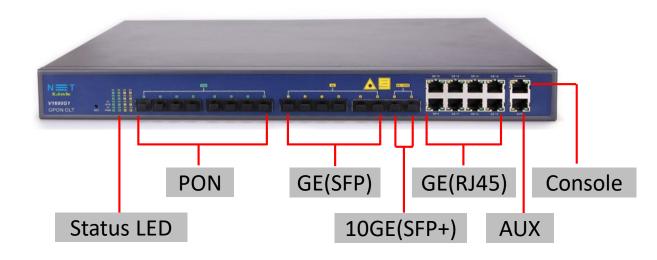
- 1U height compact design
- Adopt mainstream chip scheme





### functional characteristics

#### Product appearance features



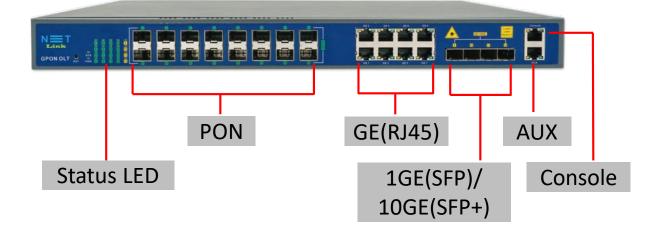


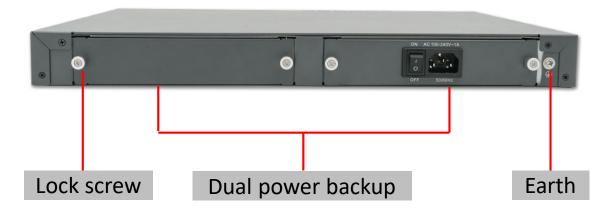




# functional characteristics

#### Product appearance features







0.0

### technical indicator

I	tem	V1600G1	V1600G2	
Chassis	Rack	1U 19 inch standard bo	х	
	QTY	16	12	
1G/10G	Copper 10/100/1000M auto-negotiation	8		
1G/10G Uplink Port	SFP 1GE	6	4	
	SFP+ 10GE	2		
	QTY	8	16	
CDON Dort	Physical Interface	SFP Slot		
GPON Port	Connector Type	Class C+		
	Max splitting ratio	1:128		
Management Ports	1*10/100BASE-T out-bar	nd port, 1*CONSOLE po	rt	
	Transmission Distance	20KM		
	GPON port speed	Upstream 1.244G Downstream 2.488G		
	Wavelength	TX 1490nm, RX 1310n	n	
PON Port Specification(Class	Connector	SC/UPC		
Specification(Class C+ module)	Fiber Type	9/125µm SMF		
	TX Power	+3~+7dBm		
	Rx Sensitivity	-30dBm		
	Saturation Optical Power	-12dBm		
Dimension(L*W*H)		442*200*43.6mm	442*320*43.6mm	
Weight		3.1kg	4.5kg	
AC Power Supply		AC:100 $\sim$ 240V, 47/63H	łz	
DC Power Supply(DC	C:-48V)	v	V	
Double Power Modu	ule Hot Backup	V	V	
Power Consumption	]	45W	85W	
	Working Temperature	0∼+50°C		
Operating Environment	Storage Temperature	-40~+85°C		
	Relative Humidity	5 $\sim$ 90%(non-condition	ling)	





#### V1600G1/G2: LED information

LED	ON	Blink	OFF
PWR	The device is powered up	—	The device is powered down
SYS	Device is starting	Device is running normal	Device is running abnormal
PON1~ PON16	ONT is registered to the PON system	ONT is registering to the PON system	ONT is not registered to the PON system or ONT do not connect to OLT
SFP/SFP+	The device is connected to the 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 to the port		The device is not connected to the port



# **Software function**

#### **Management Mode**

• SNMP、Telnet、CLI、WEB;

#### **Management Function**

- Fan Group Control;
- Port Status monitoring and configuration management;
- Online ONT configuration and management;
- User management;
- Alarm management;

#### Layer2 Switch

- 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;
- Support port isolation;
- Support port rate limitation;
- Support 802.1D and 802.1W;
- Support static LACP;
- QoS based on port, VID, TOS and MAC address;
- Access control list;
- IEEE802.x flow control;
- Port stability statistic and monitoring;



0
0
hand

# **Software function**

#### **Multicast**

- IGMP snooping;
- 256 IP Multicast Groups;

#### DHCP

- DHCP server;
- DHCP relay;
- DHCP snooping;

#### **GPON Function**

- 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;
- 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;



# Software function

#### Layer 3 Route

- ARP proxy
- Static route
- 1024 hardware Host Routes;
- 512 hardware Subnet Routes;

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.	
Ŭ	Time limit	Limit system used time, 31days. Equipment tri license, after 31days of running time, all ONTs b 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.	
	Profile	Including ONT, DBA, TRAFFIC, LINE, SERVICE, ALARM, PRIVATE profiles. All ONT features can be configured by profiles.	
	Auto learn	ONT automatically discovery, register, online.	
ONU management	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.	



# ¢<sup>∞</sup> EMS

#### **Key Features**

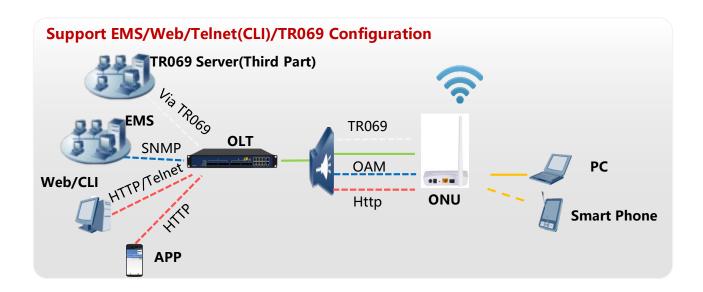
- ✓ Support C/S & B/S architecture
- Support auto topology or modify manually
- Add Trap Server to detect ONT automatically
- EMS can add and configure ONT automatically
- Add ONT position information

						Search
⇒ <u></u> 192:	68.8.115 Log	ic Topo Nap   Physical Topo Nap				
8 🗲 😂	Rer-0101 Spiller-0101-group					
	102.168.8.115-0101:01 102.168.8.115-0101:02	<b>1</b>				
	192.168.8.115-0161:03 192.168.6.115-0101:04	Server	192 100 B 1112 9080 1112 94		1041101408041501080715010108	
	102.168.8.115-0101:05 102.168.8.115-0101:06					
	192.168.8.115-0101:07 192.168.8.115-0101:08	192.168.8.115				
	102.168.8.115-0101:00 102.168.8.115-0101:10	Settine 0101		011121000111201000112010	1211501002150101015010121	
	192.168.8.115-0101:11					
		po 🛕 Alarm 🖬 Cha	rt	A user -		
		No. Thursday market		O dser	and a second	
T Information	Device Status					
	Device Status	*****				
Device Information	Device Status	21 V V V V 0014 0E1 0E2 0E3 0E4 0E5	₩ ₩ ₩ 0E6 0E7 0E8			
Device Information T Configuration	Device Status	ON4 GE1 GE2 GE3 GE4 GE5	<b>W W W</b> 665 667 660			Saure Tree
T Information Device Information T Configuration	Device Status	ON4 GE1 GE2 GE3 GE4 GE5	₩ ₩ ₩ 0E6 GE7 GE8			Source Type
Device Information T Configuration U Configuration	Device Status	ON4 GE1 GE2 GE3 GE4 GE5	CE5 GE7 GE0			Bource Type
Device Information T Configuration	Device Status to the th PONI PONI2 PONI3 P Device Basic Informa	ON4 GE1 GE2 GE3 GE4 GE5	GE6 GE7 GE0			Bource Type
Device Information T Configuration U Configuration	Device Status to the th PONI PONI2 PONI3 P Device Basic Informa	ON4 GE1 GE2 GE3 GE4 GE5	GE6 GE7 GE0	V2.03.42		Source Type
Device Information T Configuration U Configuration	Device Status <b>11 12 12</b> PONI PONIS PONIS P Device Basic Informa System Name Hardware Version	volve GE1 GE2 GE3 GE4 GE5	Senal Number			Source Type
Device Information  F Configuration U Configuration file Configuration	Device Status <b>17 19 19</b> PONI PONS PONS P Device Basic Informat System Name Hardware Version MAC Address	NV4 GE1 GE2 GE1 GE4 GE5	GE5 GE7 GE8	500		
Pevice Information F Configuration U Configuration file Configuration	Device Status <b>11 12 12</b> PONI PONIS PONIS P Device Basic Informa System Name Hardware Version	epon-oit four epon oit platform	Senal Number		Anutas 59 Seconds	Bource Type

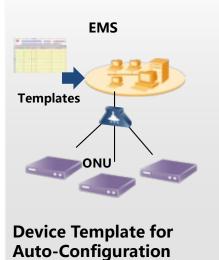




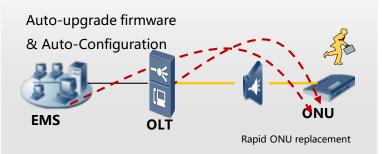
# EMS



#### Support ONUs Plug&Play



#### **Rapid operation and maintenance**





#### **Typical application diagram** VOIP Fiber Access IP/MPLS Internet EMS ΟL FTTH FTTB/FTTO ompany Office Building Smart Community Hote

#### Copyright (C) 2010-2019 NETLINK Reserve all rights

**Current Optronics Private Limited**