



1.1 Product Description

G/EPON 1GE ONU is support Dual mode(EPON and GPON), It can also be applied to a wide temperature environment, and also has a powerful firewall function.

G/EPON 1GE ONU meets telecom operators FTTO (office), FTTD (Desk), FTTH(Home) broadband speed, SOHO broadband access, video surveillance and other requirements and design a GPON/EPON Gigabit Ethernet products. The box is based on the mature Gigabit GPON/EPON technology, highly reliable and easy to maintain, with guaranteed QOS for different service. And it is fully compliant with technical regulations such as ITU-T G.984.x and IEEE802.3ah.With the technology of PoE (Power over Ethernet) for V2801SD-1GPD, we can transfer both data and electrical power from PSE adapter to ONU using a standard CAT5 cable.



1.2 Product categories

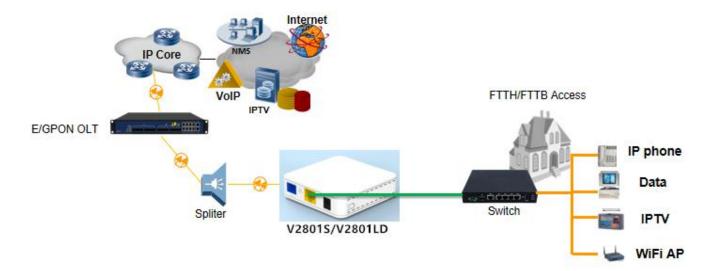
Product model	Product specification	RAM Size
V2801S	1 G/EPON+1GE	
V2801SD_1GPD	1 G/EPON+1GE+PD	32MB
V2801LD	1 G/EPON+1GE	

Table 1 Product categories



1.3 Application Chart

1.3.1 1GE ONU Application



1.3.2 1GE+POE(PD) ONU For IP Camera Application



1.4 Technical parameters

Technical item	1GE		
PON interface	1 G/EPON port(EPON PX20+ and GPON Class B+)		
	Wavelength:Tx1310nm,Rx 1490nm		
	SC/UPC connector		
	Receiving saturation:≽-8dBm		
	Receiving sensitivity: ≤-28dBm		
	Transmitting optical power: 0~+4dBm		
	Transmission distance: 20KM		
LAN interface	1 x 10/100/1000Mbps auto adaptive Ethernet interfaces.10/100/1000M		
	Full/Half, RJ45 connector		
PD(Reverse POE)DC +12 ~ +24V		
LED	3, For Status of REG、SYS、LINK/ACT		
Operating	Temperature: -30°C∼+70°C		
condition	Humidity: 10%~90% (non-condensing)		



Storing	Temperature : -30°C∼+70°C			
condition	Humidity :10%~90% (non-condensing)			
Power supply	DC 12V/0.5A			
Power	≪4W			
consumption				
Dimension	82mm×82mm×25mm (L×W×H)			
Net weight	85g			

Table 2 Technical parameters

1.5 Panel lights



LED	Mark	Color	Status	Description
system SYS	Green	On	Device is powered on and starting.	
		Blink	Device is running normally.	
			Off	Device is powered off.
Optical	REG	Yellow	Blink	Device is not registered to the PON system.

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		Green	Blink	Device is being registered.
		Green	On	Device is registered to the PON system.
Interface LINK/A CT		Green	On	Port is connected properly .
	-		Off	Port connection exception or not connected.
			Blink	Port is sending or/and receiving data.

Table 3 Panel lights on

1.6 Interface description



Port Type	Function
PON	Connect PON port with internet by SC/UPC type, single mode optical fiber cable.
LAN	Connect device with ethernet port by RJ-45 cat5 cable. Optional support PD(reverse POE) function.
RST	Press down reset button and keep1-5seconds to make the device restart and recover from the factory default settings.
DC12V	Connect with power adapter.
	Table 4 Interface description

Table 4 Interface description

1.7 Software Key Feature

Software Key Feature				
EPON/GPON mode	Dual mode , Can access EPON/GPON OLTs.			
Software mode	Bridging mode and Routing mode.			
Abnormal protection	Detecting Rogue ONU, Hardware Dying Gasp.			
Firewall	DDOS, Filtering Based on ACL/MAC/URL.			

Table 5 Software Key Feature

Access the world



1.8 Software Parameters

Parameter Name	Software Parameters
Basic	Support MPCP discover®ister
	Support authentication Mac/Loid/Mac+Loid
	Support Triple Churning
	Support DBA bandwidth
	Support auto-detecting, auto-configuration, and auto firmware upgrade
	Support authentication SN/Psw/Loid/Loid+Psw
Alarm	Support Dying Gasp
	Support Port Loop Detect
	Support Eth Port Los
LAN	Support Port rate limiting
	Support Loop detection
	Support Flow control
	Support Storm control
VLAN	Support VLAN tag mode
	Support VLAN transparent mode
	Support VLAN trunk mode(max 8 vlans)
	Support VLAN 1:1 translation mode(max 8 vlans)
	Auto VLAN detection
Multicast Support IGMPv1/v2	
	Support IGMP Snooping
	Max Multicast vlan 8
	Max Multicast Group 64
QoS	Support 4 queues
	Support SP and WRR
	Support 802.1P
L3	Support IPv4
	Support DHCP/PPPOE/Static IP
	Support Static route
	Support NAT
	Support CTC OAM 2.0 and 2.1
	Support ITUT984.x OMCI
Management	Support WEB
	Support TELNET
	Support CLI
Throughput	Upstream >900Mbps
	Downstream >960Mbps
Packet lost	14Hours /Lost 0

Table 6 Software Parameters