



武汉长光科技有限公司
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**Opticalink
G1000
GPON OLT
Product Introduction**

Version:V1.0

1 Overview

The G1000 series GPON OLT products are 1U height, 8 or 16 GPON ports, 19 inches rack mount carrier-grade GPON OLT, suitable for small-scale access, flexible for installation.

G1000 series are small, convenient, flexible, easy to deploy, high performance, which makes them appropriate to be deployed in compact room environment. The OLTs can be used for “Triple-Play”, VPN, IP Camera, Enterprise LAN, ICT applications, etc.



2 Technical Specification

Item		G1022 16 PON	G1012 8 PON
Chassis	Rack	1U 19" standard box	
1000M Uplink Port	Pon Port	16	8
	Copper 10/100/1000M auto-negotiation	8	4
	SFP+ SFP+ is 1G/10GE (independent)	8	4
GPON Port	QTY	16	8
	Physical Interface	SFP Slot	
	Connector Type	Class B+/C+	
	Max splitting ratio	1:128	
Management Ports		1*10/100BASE-T out-band port, 1*CONSOLE port	

PON Port Specification	Transmission Distance	20KM
	GPON port speed	Upstream 1.244G, Downstream 2.488G
	Wavelength	TX 1490nm, RX 1310nm
	Connector	SC/PC
	Fiber Type	9/125µm SMF
	TX Power	+1 ~ +5dBm
	Rx Sensitivity	-28dBm
	Saturation Optical Power	-8dBm
Management Mode	SNMP, Telnet, CLI	
Management Function	<p>Port Status monitoring and configuration management;</p> <p>Layer2 switch configuration such as VLAN, Trunk, RSTP, IGMP, QOS, etc.;</p> <p>GPON management function: DBA, ONU authorization, ACL, QOS, etc.;</p> <p>Online ONU configuration and management;</p> <p>User management;</p> <p>Alarm management.</p>	
Layer2 Switch	<p>16K Mac address</p> <p>Support 4096 VLANs;</p> <p>Support port VLAN and protocol VLAN;</p> <p>Support VLAN tag/Un-tag, VLAN transparent transmission;</p> <p>Support VLAN translation and QinQ;</p> <p>Support storm control based on port</p> <p>Support port isolation</p> <p>Support port rate limitation</p> <p>Support 802.1D and 802.1W;</p>	

		<p>Support static LACP;</p> <p>QOS based on port, VID, TOS and MAC address;</p> <p>Access control list;</p> <p>IEEE802.x flow control;</p> <p>Port stability statistic and monitoring.</p>
Multicast		<p>IGMP snooping</p> <p>256 IP Multicast Groups;</p>
Layer 3 Route		<p>Arp proxy</p> <p>Static route</p> <p>1024 hardware Host Routes;</p> <p>512 hardware Subnet Routes;</p>
GPON Function		<p>TCont dba;</p> <p>GEMPort traffic</p> <p>In compliant with ITUT984.x standard;</p> <p>Up to 20KM transmission Distance;</p> <p>Support data encryption, multi-cast, port VLAN, separation, RSTP, etc.;</p> <p>Support ONU auto-discovery/link detection/remote upgrade of software;</p> <p>Support VLAN division and user separation to avoid broadcast storm;</p> <p>Support power-off alarm function, easy for link problem detection;</p> <p>Support broadcasting storm resistance function;</p> <p>Support port isolation between different ports;</p> <p>Support ACL and SNMP to configure data packet filter flexibly;</p> <p>Specialized design for system breakdown prevention to maintain stable system;</p> <p>Support RSTP, IGMP Proxy.</p>
Dimension(L*W*H)		440mm (W) x 44mm (H) x 402(D)
Weight		6.1kg
Power Supply	220VAC (Double	AC:100-240VAC 50-60Hz 1.8A MAX

	Power Module Hot Backup)	
Power Consumption		100W
Operating Environment	Working Temperature	-10 ~ +55°C
	Storage Temperature	-30 ~ +75°C
	Relative Humidity	10 ~ 90%(non-conditioning)

3 Ordering Information

Model	Product Description
G1012	1U, 19" rack, dual AC 200~240V power supply, 4GE copper and 4 GE/10GE SFP/SFP+ uplink ports 8 fixed GPON ports
G1022	1U, 19" rack, dual AC 200~240V power supply, 8GE copper and 8 GE/10GE SFP/SFP+ uplink ports 16 fixed GPON ports