

# SY-GPON-4OLT



## SY-GPON-4OLT High-Density Rack-Mounted

### Overview:

Syrotech SY-GPON-4OLT complies with ITU-T G.984/G.988 and meets the requirements for GPON OLT in Network Access Technical Requirements. It fully supports CTC2.0, automatic discovery, and cooperation with ONUs of different manufacturers. It supports the asymmetric uplink 1.25Gbps/downlink 2.5Gbps PON transmission rate, efficient bandwidth usage, and Ethernet services, helping carriers provide reliable services to their users. Its coupling ratio goes up to 1:128, and its support for different hybrid ONU networks minimizes the carrier's investment.

Syrotech SY-GPON-4OLT, based on cutting-edge technologies, is strong in functions. Some of its functions, such as QoS guarantee, SLA, and DBA, can be easily listed.

### Ordering Information:

Model	Description
SY-GPON-4OLT	GPON-4OLT, IU chassis, 4 Fixed PON slots
	2*1 GE (Copper) + 2*1/10G (SFP/SFP+) ports
	CLI, EMS, 1:128 splitting ration and with 4xC++ PON SFP

**Technical Parameters:**

Attributes	SY-GPON-4OLT	
System Capacity	Maximum coupling ratio: 1:128	
	Backplane bandwidth:104Gbps	
	MAC table capacity: 32K	
	Switching capacity: 64Gbps	
Interface	PON	4
	Uplink	2 GE ports (Copper), 2 gigabit SFP/SFP+Ports
		Support Uplink 1.25g and 10G sfp transceivers 850/1310/1550nm
Attributes of the PON Interface	The transmission rate with downlink 2.5Gbps/uplink	
	1.25Gbps	
	Class B+ and Class C+ GPON module	
	Security: ONU authentication mechanism	
Standards	ITU-T G.984/G.988	
	IEEE 802.1D, Spanning Tree	
	IEEE 802.1Q, VLAN	
	IEEE 802.1w, RSTP	
	IEEE 802.3ad physical link static/dynamic aggregation	
	Support OMCI Encryption enabled / disabled for ONT	
	Support OMCI authentication for ONT	
	(LACP)	
QoS	Ethernet – II	
	Backpressure flow control (half duplex)	
	IEEE 802.3x flow control (full duplex)	
	IEEE 802.1p, CoS	
	WRR, SP and FIFO queue schedule	

**Specifications:**

	DBA and SLA
VLAN	Port based VLAN, 4K VLAN
	QinQ and flexible QinQ
Multicast	L2 Multicast
	IGMP Snooping
	MLD Snooping
Reliability	Unidirectional Link Detection (UDLD)
	Hot swap of the GPON optical module
	Optical path protection of GPON (type B)
	Abnormal luminescence ONU detection such as long luminescence
	luminescence
DHCP	DHCP Server,DHCP relay,DHCP Snooping,DHCP Option 82
Network Security	Limiting the maximum number of users on each port
	Port isolation
	Packet storm control
	Flow-based ACL access control function
	Transmission data encryption on the PON interface
	Supports TACAS+
Configuration Management	Various management modes such as CLI, SNMP and TELNET
	Conducting software upgrade through TFTP
	TFTP
	Debug output
Physical Characteristics	Dimensions mm (WxDxH): 442x200x 44
	Installation: standard 19-inch rack-mounted
	Weight: 4.25Kg
Environment	Operating environment: 0°C-45°C; 10%-85% non-condensing
	Storage environment: -40°C-80°C; 5%-95% non-condensing
Power Supply	Input voltage: AC90 ~ 240V, DC 36 ~ 72V, dual-power input, DC/AC power supply and hot-swap, DC Power Supply (optional).