

# SY-GPON-8OLT

## High-Density Rack-Mounted



### Overview:

Syrotech SY-GPON-8OLT complies with ITU-T G.984/G.988 and meets requirements about GPON OLT in *Network Access Technical Requirements*. It fully supports CTC2.0, automatic discovery and cooperation with ONUs of different manufacturers.

Syrotech SY-GPON-8OLT supports the Asymmetric uplink 1.25Gbps/downlink 2.5Gbps PON transmission rate, efficient bandwidth usage and Ethernet services, helping carriers to provide reliable services to their users.

Its coupling ratio ups to 1:128, and its support of different hybrid ONU networks minimize the carrier's investment.

Syrotech SY-GPON-8OLT, based on the edge-cutting technologies, is strong in functions. A few of its functions such as QoS guarantee, SLA and DBA can be easily listed out.

**Technical Parameters:**

Attributes		SY-GPON-8OLT
System Capacity		Maximum coupling ratio:1:128 Backplane bandwidth:205G MAC table capacity: 64K
Interface	PON	8
	Uplink interface	8 GE ports (4 gigabit SFP ports, 4 gigabit TX/SFP combo ports)
		4 10GE SFP+ ports
Attributes of the PON Interface		The transmission rate with downlink 2.5Gbps/uplink 1.25Gbps Class B <sup>+</sup> and Class C <sup>+</sup> 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 (LACP) Ethernet – II
QoS		Backpressure flow control (half duplex) IEEE 802.3x flow control (full duplex) IEEE 802.1p, CoS WRR, SP and FIFO queue schedule Limiting the uplink/downlink rate based on each ONU 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/C, hand-in-hand) Abnormal luminescence ONU detection such as long luminescence
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
Configuration Management		Various management modes such as CLI, SNMP and TELNET Conducting software upgrade through TFTP Debug output
Physical Characteristics		Dimensions mm (W×D×H): 442.5x304x 44 Installation: standard 19-inch rack-mounted Weight: 5.25Kg
Environment		Operating environment: 0℃-45℃; 10%-85% non-condensing Storage environment: -40℃-80℃; 5%-95% non-condensing

Power Supply	Input voltage: AC90 ~ 240V, DC 36 ~ 72V dual-power input, DC/AC power supply and hot-swap
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## Ordering Information:

Model	Description
SY-GPON-8OLT	GPON-8OLT, IU chassis, 8 Fixed PON slots, 8 Combo port (4xGE SFP Port+ 4xGE Copper Port), 2x10GE SFP+ Ports, CLI NMS, 1:128 splitting ration and with 8xC++ PON SFP