



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:104Gbps	
	MAC table capacity: 32K	
	Switching capacity: 88Gbps	
Interface	PON	8
	Uplink	2*1gig(SFP ports) + 2*1/10gig(SFP/SFP+ ports) + 4*1 Gig(Copper 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	
	Limiting the uplink/downlink rate based on each ONU	
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, hand-in-hand)	
	Abnormal luminescence ONU detection such as long luminescence	
DHCP	DHCP Server,DHCP relay,DHCP Snooping,DHCP Option 82	


Specifications:

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
	Debug output
Physical Characteristics	Dimensions mm (WxDxH): 442.5x304x 44
	Installation: standard 19-inch rack-mounted
	Weight: 5.25Kg
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


Ordering Information:

Model	Description
SY-GPON-8OLT	GPON-8OLT, IU chassis, 8 Fixed PON slots
	2*1gig(SFP ports) + 2*1/10gig(SFP/SFP+ ports) + 4*1 Gig(Copper ports)
	CLI,EMS, 1:128 splitting ratio and with 8xC++ PON SFP