



SNA8800T 8 Port Gepon OLT System Description:

The SNA8800T is a GEPON OLT system based on IEEE802.3ah Gigabit EPON standard. It comes with 8 GEPON ports, which can connect up to 512 GEPON ONUs at 1:64 Fiber Splitting Ratio. It is a Telecom Grade GEPON OLT system designed for ISPs deploying Triple Play Gepon networks to offer high quality Internet Data, Voice and IPTV services (such as IPTV, VoIP and Data Transmission services) to Subscribers.

Main Advantages:

- Support IPv4 and IPv6, suitable for applying in both IPv4 and IPv6 based Networks
- Support SLA (Service Level Assignment) and DBA (Dynamic Bandwidth Assignment), enhancing QOS.
- Support main power supply and backup power supply work in 1+1 mode, ensuring high stability of network.
- Support 1:64 Fiber Ratio at 20Km transmission distance, can connect up to 512 remote ONUs.
- Comes with 8 Gigabit Fiber/Ethernet uplink ports, ensuring high bandwidth support for each Gepon Port.
- Support IEEE802.1Q VLAN, QinQ, VLAN translation, enhancing highly applicable VLANs for different environments.
- Support STP, RSTP, MSTP spanning tree protocols, suitable for applying in different network environments.
- Support Anti-ARP spoofing/flooding, IP Source Guard, Port Isolation, etc, enhancing security levels.
- Support IPv4 and IPv6 Multicast, support IGMP V1, V2 and MLD V1, V2
- Support EAS and EARP based Loop detection, can recover link in 50ms
- Support LACP based link protection, can recover link in 10ms.
- Support Layer 2/3 full line speed for GE and Gepon ports, ensuring no packet losses.

Gepon Parameters:

- Support IEEE802.3ah Gigabit Epon standard,
- Support 20Km transmission distance over Single Fiber
- Support 8 Gepon downstreaming ports, support 1:64 fiber splitting ratio, can connect up to 512 ONUs
- Support encrypted Triple Churning for upstreaming and downstreaming
- Support China Telecom Standard CTC 2.0, 2.1, 3.0
- Support DBA Dynamic Bandwidth Assignation,
- Support ONU auto detection and reporting illegal ONU registrations
- Support auto-inspection for received optical fiber power.
- Support 1.25Gbps GEPON transmission, Wavelength of Gepon SC: Uplink: 1310nm, Downlink: 1490nm

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- Support CATV over EPON application, CATV wavelength at 1550nm.
- Average Optical Transmitting Power for the Gepon SC Port: +2dbm to +7dbm
- Optical reception sensibility of the Gepon SC Port: -30dBm
- Max Optical Fiber Ratio: 1:64 at 20Km transmission distance
- Support Standard OAM and expandable OAM management features
- Support upgrading ONUs remotely in batches.

Hardware Features:

- Fully Compatible with IEEE802.3, IEEE802.3u, IEEE802.3z, IEEE802.3ah standard
- Support 8 GEPON SC ports, 1.25Gbps transmission rate.
- Support 8* Gigabit SFP uplink interfaces + 8*10/100/1000Base-Tx combo
- Support Hot Swap of GEPON SFP Transceivers
- Support EAPS fast loopback protection and GEPON Optical Path protection.
- MAC address table: 16K
- VLAN Table: 1-4094
- Power Supply: Main Power Supply + Backup Power supply
- AC Power Supply: AC: 90~264V, 50/60Hz
- DC: -36~-72V
- SNA8800T 8 Port OLT chassis height: 1U

Hardware Specifications:

Model NO.	SNA8800T 8 Port GEPON OLT		
	Hardware Capacity		
	Hardware Standards	IEEE802.3, IEEE802.3u, IEEE802.3z, IEEE802.3ah standard	
	GEPON Ports	8 GEPON SC ports	
	Uplink Ports	8 Gigabit SFP or 8 10/100/1000Base-Tx combo ports	
	Hardware Liablity	Support VRRP host backup	
		Support Double fault-tolerant backup of host program and configuration files	
		Support PON card/fan hot-swappable	
		Support 1+1 main control panel hot backup	
		Support 1+1 power backup	
	Switching Capacity	32Gbps	
	MAC Address Table	16K	
	VLAN Table	1-4094	
	Hot Swap	→ Support Hot Swap of GEPON SFP Transceiver	
Hardware	Power Supply	Redundant Power Supply: 110-240V AC, 50/60Hz	
		→ Support optional DC Power Supply	

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	→ Power Consumption: <46w
	→ Support IEEE802.3ah Gigabit Epon standard,
	→ Support 20Km transmission distance over Single Fiber
	→ Support 8 Gepon downstreaming ports, support 1:64 fiber splitting ratio, can
	connect up to 512 ONUs
	 Support encrypted Triple Churning for upstreaming and downstreaming
	→ Support China Telecom Standard CTC 2.0, 2.1, 3.0
	 Support DBA Dynamic Bandwidth Assignation,
Gepon Characters	 Support ONU auto detection and reporting illegal ONU registrations
	 Support auto-inspection for received optical fiber power.
	→ Support 1.25Gbps GEPON transmission, Wavelength of Gepon SC: Uplink:
	1310nm, Downlink: 1490nm
	 Support CATV over EPON application, CATV wavelength at 1550nm.
	 Average Optical Transmitting Power for the Gepon SC Port: +2dbm to
	+7dbm
	 Optical reception sensibility of the Gepon SC Port: -30dBm
	 Max Optical Fiber Ratio: 1:64 at 20Km transmission distance
	 Support Standard OAM and expandable OAM management features
	Support upgrading ONUs remotely in batches.

Software Specifications:

	Protocols	IEEE802.1Q, IEEE802.1P, IEEE802.3X, IEEE802.3ad, IEEE802.1D, IEEE802.1W,
		IEEE802.1S, IPv4, IPv6
		Support 1-4094 VLAN entries
		Support Port-based/MAC-based/IP subnet-based VLAN
	VLAN	Support Port-based QinQ and Selective QinQ (Vlan Stacking)
		Support VLAN Swap / VLAN Remark /VLAN Translation
		Suport GVRP Dynamic VLAN registration
		Support VLAN add, delete and replace based on ONU service flow.
		Support Rate-limit to sending/receiving packet of each port, or user defined flow.
Layer 2 Features		Offers general flow monitor and user-defined flow monitor
		Support Prioritized remark to port, or to user defined flow.
		Offers IEEE802.1P, DSCP priority and Remark
		Support CAR (Committed Access Rate), Traffic Shaping and flow statistics
	QOS	Support Packet mirroring and redirecting of interface or user defined flow
		Support super queue scheduler based on port and user-defined flow. Each
		port/Flow supports 8 prioritized queues and scheduler of SP,WRR and SF+WRR.
		Offerings congestion avoidance mechanism, Supports Tail-Drop and WRED
		Support IEEE 802.1D Spanning Tree Protocol (STP)



	Spanning Tree	Support IEEE 802.1w Rapid Spanning Tree Protocol (RSTP)
		Support IEEE 802.1s Multiple Spanning Tree Protocol instances (MSTP)
		Support Remote ONU Loop Detecting alarming
	MAC	Support MAC Black Hole
		Support Port MAC Limitation
		Offers 16K MAC addresses
	Multicast	IGMP V1, V2, V3, IGMP Snooping,
		Support standard and expandable ACL
		Support ACL in Time Interval
		Support packet filter, Source/Destination MAC filter, Source/Destination IP filter,
	Access Control List	Port Filter, Protocol Filter, VLAN filter, VLAN range filter, MAC Address range filter,
		Invalid Frame filter,
		Support up to 50 concurrent service traffic identification
		Support packet filtration of L2 ~ L7 in 80 bytes of IP packet head
		Support Port Based Bi-directional bandwidth control
	Port	Static link aggregation and LACP(Link Aggregation Control Protocol)
		Support Port mirroring and Traffic mirroring
		Support Anti-ARP-spoofing
		Support Anti-ARP-flooding
	User Security	Support IP Source Guard create IP+VLAN+MAC+Port binding
		Support Port Isolation
		Support MAC address binds to port and port MAC address filtration
		Support IEEE 802.1x and AAA/Radius authentication
		Support Anti-DOS attack (such as ARP, Synflood, Smurf, ICMP attack), ARP
		detection, worm and Msblaster worm attack
		Support SSHv2 Secure Shell
	OLT Security	Support SNMP v3 encrypted management
		Support Security IP login through Telnet
		Support Hierarchical management and password protection of users
	Network Security	Support User MAC and ARP traffic verification
		Support Restrict ARP traffic per user and kick-out user sends ARP traffic
		Support Dynamic ARP table binding
		Support IP/VLAN/MAC/Port binding
		Support L2 to L7 ACL flow filtration mechanism
		Support Port broadcast/multicast suppression and auto-shutdown risky port
		Support URPF to prevent IP address from counterfeit and attack
		Support DHCP Option 82 and PPPoE+ (Indicating User physical location)
		Support plaintext authentication of OSPF,RIPv2, BGPv4 packets and MD5
		cryptograph authentication
		Support IPv6 SA/DA Classification
	IPv6 Multicast	Support MLDv2 / MLDv2 Snooping
		Support PIM-SMv6、PIM-DMv6、PIM-SSMv6
		Support IGMPv1/v2/v3, IGMPv1/v2/v3 Snooping, IGMP Filter
	IPv4 Multicast	Support MVR and multicast copy over different VLANs
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		Support IGMP Fast leave, IGMP Proxy
		Support PIM-SM/PIM-DM/PIM-SSM,
		Support EAPS and GERP (recover-time <50ms)
	Loop Detect	Support Loopback-detection
		Support FlexLink (recover-time <50ms)
	Link Protection	Support RSTP/MSTP (recover-time <1s)
		Support LACP (recover-time <10ms)
		Support BFD
	System Reliability	Ensuring reliability with VRRP (Virtual Router Redundancy Protocol)
	sFlow	Support RFC3176 sFlow
	Telnet	Support CLI commands for Telnet management
Management	SNMP	Support SNMP V1, V2, V3
	NMS	Support SNMP based NMS management
	RMON	Support RMON Group 1, 2, 3, 9
	MIB	Support Private and Public MIB
Working	Humidity	Working: 10% ~ 90% non-condensation / Standby: 5% to 95% non-condensation
Environment	Work Temperature	Working: 0°C to 65°C / Standby: -20°C to 70°C