GEPON OLT

4 GEPON Ports

Support 256 ONUs

ANATEL
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V1.1.6

IEEE802.3ah GEPON OLT	Web Management	Rich Layer 2/3 switching features	NMS Management	IPv6 Ready

SNA8400W 4 Ports GEPON OLT

The SNA8400W is a GEPON OLT system based on IEEE802.3ah Gigabit EPON standard. It comes with 4 GEPON ports, which can connect up to 256 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 Features:

- 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 256 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 4 Gepon downstreaming ports, support 1:64 fiber splitting ratio, can connect up to 256 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
- 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 4 GEPON SC ports, 1.25Gbps transmission rate.
- 4*GEPON Port, 4*10/100/1000M Base-T,4*1000M Base-X SFP/4*10GE SFP+
- 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: 100～240V ; 47/63Hz
- DC: -36~-75V
- SNA8400W 4 Port OLT chassis height: 1U

Hardware Specifications:

SNA8400W 4 Port GEPON OLT	
Exchange capacity	96Gbps
Packet forwarding rate	71.424Mpps
Memory and storage	memory：512MB, storage：32MB
Management port	Console
Port	4*GEPON Port, 4*10/100/1000M Base-T,4*1000M Base-X SFP/4*10GE SFP+
Weight	≤3.5kg
Fan	Fixed fans (two fans)

Power	AC： 100～240V；47/63Hz；
	DC： 36V～75V；
Power consumption	≤38W
Dimensions (Width * height * depth)	440mm*44mm*200mm
Environment temperature	Working Temperature： -10℃～55℃
	Storge temperature： -40℃～70℃
Environment humidity	Operating humidity: 10%～95% (non-condensing)
	Storage humidity: 10%～95% (non-condensing)

Software Specifications:

PON	Comply with IEEE 802.3ah EPON standard
	20KM transmission distance
	1:64 Max splitting ratio
VLAN	Support 4K VLAN
	Support VLAN based on port, MAC and protocol
	Support dual Tag VLAN, port-based static QINQ and flexible QINQ
MAC	16K Mac address
	Support static MAC address setting
	Support black hole MAC address filtering
	Support port MAC address limit
Ring network protocol	Support STP/RSTP/MSTP
	Support ERPS Ethernet ring network protection protocol
	Support Loopback-detection port loopback detection
Port control	Support two-way bandwidth control
	Support port storm suppression
	Support 9K Jumbo ultra-long frame forwarding
Port aggregation	Support static link aggregation
	Support dynamic LACP
	Each aggregation group supports a maximum of 8 ports
Mirroring	Support port mirroring
	Support stream mirroring
ACL	Support standard and extended ACL
	Support ACL policy based on time period

	Provide flow classification and flow definition based on IP header information such as source/destination MAC address, VLAN, 802.1p, TOS, DSCP, source/destination IP address, L4 port number, protocol type, etc.
QoS	Support flow rate limiting function based on custom business flow
	Supports mirroring and redirection functions based on custom business flows
	Support priority marking based on custom service flow, support 802.1P, DSCP priority Remark capability Support port-based priority scheduling function, support queue scheduling algorithms such as SP/WRR/SP+WRR
Safety	Support user hierarchical management and password protection
	Support IEEE 802.1X authentication
	Support Radius& TACA CS+ authentication
	Support MAC address learning limit, support black hole MAC function
	Support port isolation
	Support broadcast message rate suppression
	Support IP Source Guard Support ARP flood suppression and ARP spoofing protection
	Support DOS attack and virus attack protection
Layer 3	Support ARP learning and aging
	Support static route
	Support dynamic route RIP/OSPF/BGP/ISIS
	Support VRRP
System management	CLI、Telnet、WEB、SNMP V1/V2/V3、SSH2.0
	Support FTP, TFTP file upload and download
	Support RMON
	Support SNTP
	Support system work log
	Support LLDP neighbor device discovery protocol
	Support 802.3ah Ethernet OAM
	Support RFC 3164 Syslog
	Support Ping and Traceroute

Order Information

Model No.	Product Description
SNA8400W	4*PON port, 4*10GE/GE SFP +4GE RJ45 uplink port, standard for AC Power; Dual power with optional