



823LT 4 Port Gepon OLT System Description:

The 823LT is a Gepon OLT System based on IEEE802.3ah Gigabit Epon standard. It supports maximum 4 Gepon ports, which can connect up to 256 pcs of subscriber Gepon ONUs at 1:64 Optical Fiber Ratio. It is a Telecom Grade Grade OLT system designed for Internet Service providers offering high quality and high speed internet services (such as IPTV, VoIP, Data Transmission services) to Subsribers.

Rich Layer 2 Network Management Features:

The 823LT supports rich layer 2 wire-speed switching and rich management features such as IEEE 802.3 10Base-Tx Ethernet, IEEE 802.3u 100Base-Tx Ethernet, IEEE802.3z gigabit Ethernet, IEEE802.3ad, IEEE 802.3x flow control, IEEE802.1Q VLAN, IEEE802.1P QOS, IEEE 802.1D Spanning Tree, IEEE802.1W Rapid Spanning Tree, IEEE802.3ah Gigabit EPON, IGMP Snooping V1, V2, V3, etc.

Powerful Security:

The 823LT Gepon OLT supports powerful Security features. It supports ACL (Access Control list) based on Flow control. It also supports Port Isolation to isolate different subscribers connected to the same ONU. The Data Transmission over the GEAPON link can be encrypted.

Uniform Network Maintenance and Management:

The 823LT Gepon OLT system supports powerful management and convenient maintenance features. It supports SNMP V1, V2, V3, Telnet and Web Management. With SNMP management software, such as Dude, HP Openview installed in a management PC, the system administrators can easily manage and configure the applied 823LT OLT easily and remotely with a few alternative ways.

Gepon Technology based on IEEE802.3ah standard:

The 823LT comes with 4 fixed GEAPON SFP Slots and 4 combo Gigabit SFP/Tx uplink interfaces.

- Support IEEE802.3ah Gigabit Epon standard,
- Support a max of 4 Gepon SFP Transceivers for downlinking, can connect up to 256 pcs of Subscriber ONUs
- Support the transmission rate of 1.25Gbps
- Wavelength of Gepon SC ports: Uplink: 1310nm, Downlink: 1490nm
- 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
- Support CTC 2.1 China Telecom Gigabit Epon standard
- Support Standard OAM and expandable OAM management features
- Support Encryption for uplinking and downlinking data
- Support upgrading a single ONU or to multiple ONUs simultaneously and remotely by the System administrator
- Support ONU authentication, can report illegal ONU registering events

Hardware Features:

- Fully Compatible with IEEE802.3, IEEE802.3u, IEEE802.3z, IEEE802.3ah standard
- Support 4 GEAPON SC ports, the transmission rate at 1.25Gbps
- Support 4 10/100/1000Base-Tx and 4 Gigabit SFP Slots combo uplink interfaces
- 1U Chassis with Cooling Fans equipped inside
- Offers the backplane bandwidth of 32Gbps per second
- Offers the Switching Capacity of 16Gbps per second
- Support Uni-Directional Link Detection (UDLD)
- Support Hot Swap of GEAPON SFP Transceivers
- Support EAPS fast loopback protection and GEAPON Optical Path protection.
- MAC address table: 16K
- VLAN Table: 1-4094
- Power Supply:
 - @ AC Power Supply: 110-240V AC, 50/60Hz
 - @ Power Consumption: 40W

Software Features:

The 823LT supports full layer 2 management features:

- Support IEEE802.1Q VLAN, GVRP Generic VLAN Registration, Port Based VLAN, QinQ Vlan Stacking
- Support IEEE802.1D Spanning Tree, IEEE802.1W Rapid Spanning Tree
- Support IEEE802.3ad Link Aggregation,
- Support IEEE802.3X Half Duplex and Full Duplex Backpressure Flow Control
- Support IEEE802.1P QOS, COS, DifferSev, FIFO (First In First Out), DBA (Dynamic Bandwidth Assignment), SLA,
- Support Access Control List (ACL) based on flow
- Support IEEE802.1X Radius User Authentication
- Support Bandwidth Control
- Support Multicast: IGMP V1, V2, V3, IGMP Snooping, Multicast VLAN,
- Support Cli, Telnet, SNMP V1, V2, V3, support RMON 1, 2, 3, 9, MIB
- Support SSH V1, V2
- Support firmware upgrading with TFTP and FTP
- Support local and remote system log

Gepon Solution Application:

Gepon system consists of Gepon OLT, Gepon ONU and Optical Fiber Splitters. Gepon OLT is the master device (also sorted as Layer 2 Access Switching equipment) that connects to Gepon ONU with Optical Fiber Splitters. Gepon ONU is the subscriber device that is set at the Subscribers' house. With the NMS installed in the Server PC at Gepon OLT side, administrators can manage/configure the Gepon ONU in the Gepon OLT' s server room remotely. With all 1 gigabit or 10Gigabit fiber connected, Gepon system offers a large bandwidth that can meet or exceed the transmission requirements for IPTV, VoIP and Data services. It is a great option for Fiber To The Home, Fiber To The Building, etc solutions.

Specifications:

Model NO.	823LT GEAPON OLT SYSTEM	
Hardware	Hardware Capacity	
	Hardware Standards	IEEE802.3, IEEE802.3u, IEEE802.3z, IEEE802.3ah standard
	GEAPON Ports	4 GEAPON SC ports
	Uplink Ports	4 Port 10/100/1000Base-Tx combo with 4 Gigabit SFP Slots
	Cooling System	1U Chassis with Cooling Fans equipped inside
	1.25G Gepon Interfaces	Support 4 Gepon SFP interfaces
	Backplane Bandwidth	32Gbps
	Switching Capacity	16Gbps
	UDLD	Support UDLD, Unit-Directional Link Detection
	MAC Address Table	16K
	VLAN Table	1-4094
	Hot Swap	Support Hot Swap of GEAPON SFP Transceiver
	EAPS	Support EAPS fast loopback protection and GEAPON Optical Path protection.
	Power Supply	AC Power Supply: 110-240V AC, 50/60Hz Power Consumption: 40W
Gepon Characters	<ul style="list-style-type: none"> ■ Support IEEE802.3ah Gigabit Epon standard, ■ Support a max of 4 Gepon SC ports for downlinking, can connect up to 256 pcs of Subscriber ONUs ■ Support the transmission rate of 1.25Gbps ■ Wavelength of Gepon SC ports: Uplink: 1310nm, Downlink: 1490nm ■ 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 ■ Support CTC 2.1 China Telecom Gigabit Epon standard ■ Support Standard OAM and expandable OAM management features ■ Support Encryption for uplinking and downlinking data ■ Support upgrading a single ONU or to multiple ONUs simultaneously and remotely by the System administrator ■ Support ONU authentication, can report illegal ONU registering events 	

Software	Support IEEE802.1Q VLAN, GVRP Generic VLAN Registration, Port Based VLAN, QinQ Vlan Stacking
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Support Multicast: IGMP V1, V2, V3, IGMP Snooping, Multicast VLAN,
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Support firmware upgrading with TFTP and FTP
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10GE

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http://www.vaidsys.ru/10ge_sfp_x2_xenpak.php#q5

10GE

http://www.vaidsys.ru/10GE_mediaconverter.php

2x GIGABIT

<http://www.vaidsys.ru/mediaconverters.php>

<http://www.vaidsys.ru/optical-circulator-vaidsys.php>

IP

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http://www.vaidsys.ru/ip-pbx_ip-ats.php