BY FIBER SYSTEM

PRODUCT MANUAL

LT-RG8608 8616 GPON

LT-RG8608
8616 GPON

Product Overview

- Open to any brand of ONT
- L3 OLT, support RIP v1/v2 and OSPF v2
- Power backup
- Easy to manage and friendly interface

LTseries GPON OLT products are 1U height 19 inch rack mount products. The features of the OLT are small, convenient, flexible, easy to deploy, high performance. It is appropriate to be deployed in compact.

Product	User interface	Unlink interface
LT-RG8608	8PON Port	8*GE+6*GE(SFP)+2*10GE(SFP+)
LT-RG8616	16PON Port	8*GE+4*1GE(SFP)/10GE(SFP+)

Main Characteristics

Easy to manage

- Friendly EMS/Web/Telnet/CLI management

- CLI command style similar to mainstream manufacturers

- Support APP management

Satisfactory standard

- Meet ITU-T G984/G.988 standard

- Meet China's relevant GPON standards

LT OLT

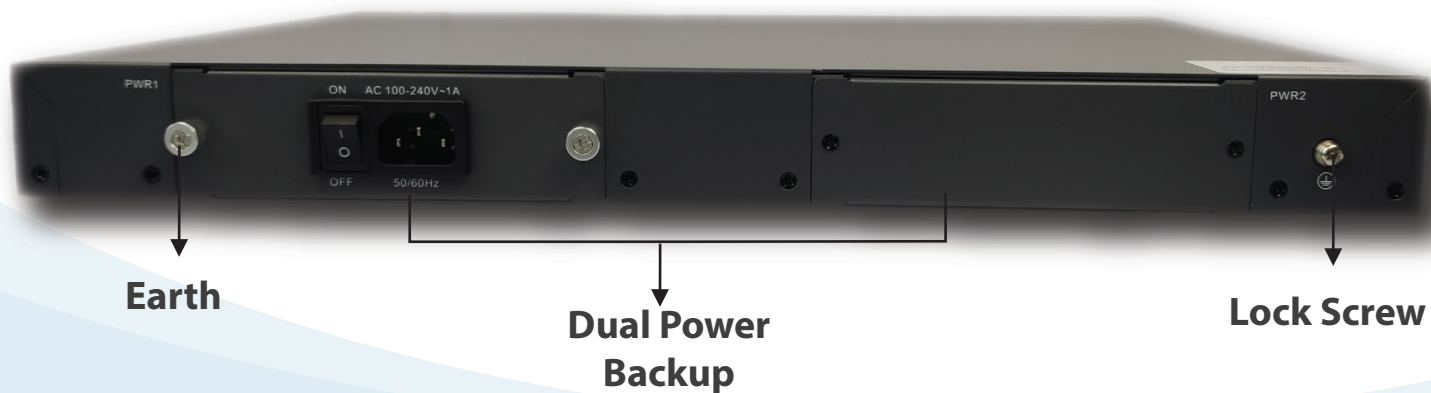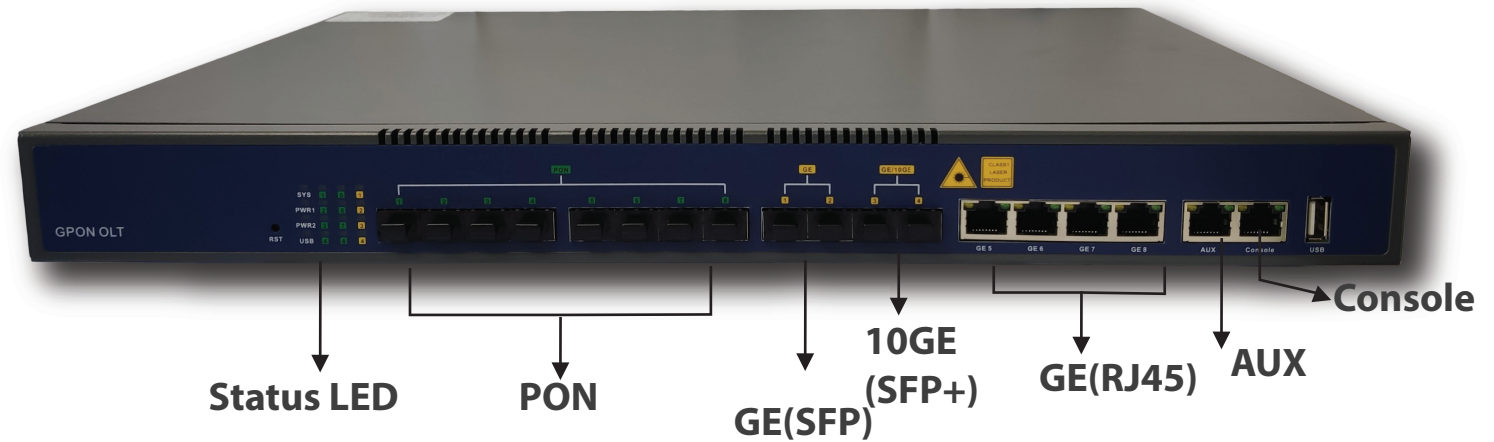- Support static route RIP v1/v2, OSFP v2

Fully open platform

- Open to any brand of ONT

High performance cost

- 1U height compact design

- Adopt mainstream chip scheme

Detailed Description

SYS
PWR1
PWR2
USB

GPON OLT

RST

GE 5 GE 6 GE 7 GE 8   AUX Console USB

Status LED   **PON**   **GE(SFP)**   **10GE**   **GE(RJ45)** **AUX**   **Console**
                                                    (SFP+)

PWR1   ON   AC 100-240V~1A   PWR2

OFF   50/60Hz

Earth   **Dual Power**   **Lock Screw**
                       Backup

Technical Specifications

Item			LT-RG8608	LT-RG8616
Chassis	Rack		1U 19 inch standard box	
	QTY		16	12
1G/10G UPLINK PORT		Copper 10/100/1000M auto-negotiation	8	
		SFP 1GE	6	
		SFP+ 10GE	2	4
GPON PORT	QTY		8	16
	Physical Interface		SFP SLOT	
	Connector Type		CLASS B+/C+	
	Max splitting ratio		1:128	
MANAGEMENT PORTS			1*10/100BASE-T OUT-BAND PORT, 1*CONSOLE PORT	
PON PORT SPECIFICATION(CLASS B+ MODULE)	Transmission Distance		20KM	
	GPON port speed		UPSTREAM 1.244G DOWNSTREAM 2.488G	
	Wavelength		TX 1490NM, RX 1310NM	
	Connector		SC/UPC	
	Fiber Type		9/125MM SMF	
	TX Power		+1~+5DBM	
	Rx Sensitivity		-28DBM	
	Saturation Optical Power		-8DBM	
DIMENSION(L*W*H)			442*200*43.6mm	442*320*43.6MM
WEIGHT			3.1kg	4.5KG
AC POWER SUPPLY			AC:90～264V, 47/63HZ	
DC POWER SUPPLY			DC:-48V	X
DOUBLE POWER MODULE HOT BACKUP			√	√

LED information

LED	ON	Blink	OFF
PWR	The device is powered up	–	The device is powered down
SYS	Device is starting	Device is running normal	Device is running abnormal
PON1～PON16	ONT is registered to the PON system	ONT is registering to the PON system	ONT is not registered to the PON system or ONT do not connect to OLT
SFP/SFP+	The device is connected to the port	The device is ongoing data transmission	The device is not connected to the port
Ethernet(green--ACT)	The device is connected to the port	–	The device is not connected to the port

Technical Specifications

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Software Funtion

Management Mode

• SNMP, Telnet, CLI, WEB

Management Function

• Fan Group Detecting;

• Port Status monitoring and configuration management;

• Layer2 switch configuration such as VLAN, Trunk, RSTP,IGMP,QOS, etc;

• GPON management function: DBA,ONU authorization, ACL, QOS, etc;

• Online ONU configuration and management;

• User management;

• Alarm management.

Layer2 Switch

• 16K Mac address

• Support 4096 VLANs;

• Support port VLAN and protocol VLAN;

• Support VLAN tag/Un-tag ,VLAN transparent transmission;

• Support Vlan translation and QinQ;

• Support storm control based on port

• Support port isolation

• Support port rate limitation

• Support 802.1D and 802.1W;

•Support static LACP;

• QOS based on port,VID,TOS and MAC address;

• Access control list;

• IEEE802.x flow control;

• Port stability statistic and monitoring.

Multicast

- Igmp snooping
- 256 IP Multicast Groups;

DHCP

- Dhcp server
- Dhcp relay
- Dhcp snooping

Layer 3 Route

- Arp proxy
- Static route
- 1024 hardware Host Routes;
- 512 hardware Subnet Routes;

GPON Function

- Tcont DBA;
- Gemport traffic;
- In compliant with ITUT984.x standard;
- Up to 20KM transmission Distance;
- Support data encryption, multi-cast, port VLAN, separation, RSTP, etc;
- Support ONU auto-discovery/link detection/remote upgrade of software;
- Support VLAN division and user separation to avoid broadcast storm;

- Support power-off alarm function, easy for link problem detection;
- Support broadcasting storm resistance function;
- Support port isolation between different ports;
- Support ACL and SNMP to configure data packet filter flexibly;
- Specialized design for system breakdown prevention to maintain stable system;
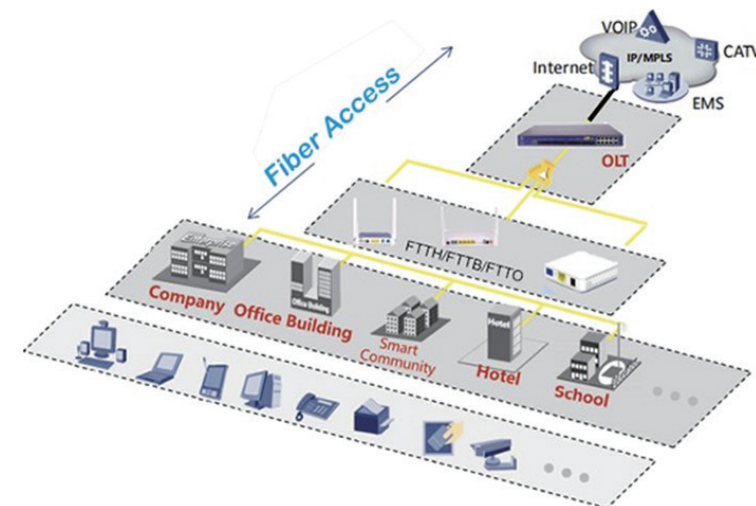- Support RSTP,IGMP Proxy.;

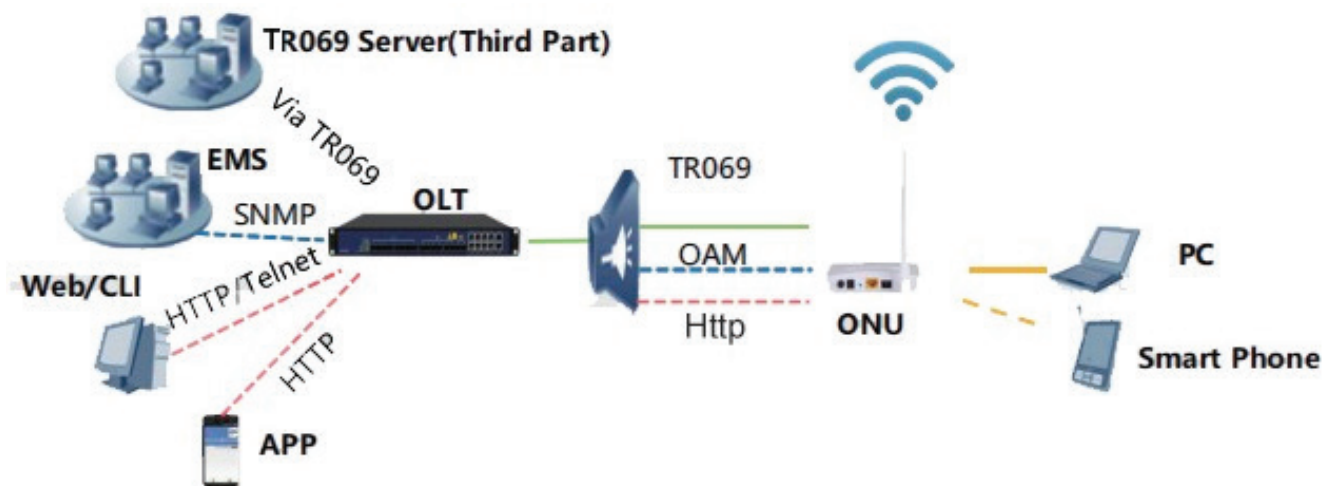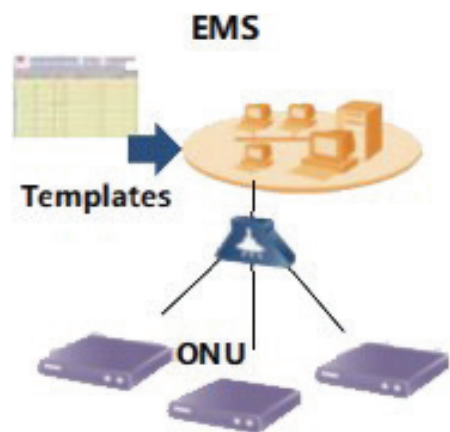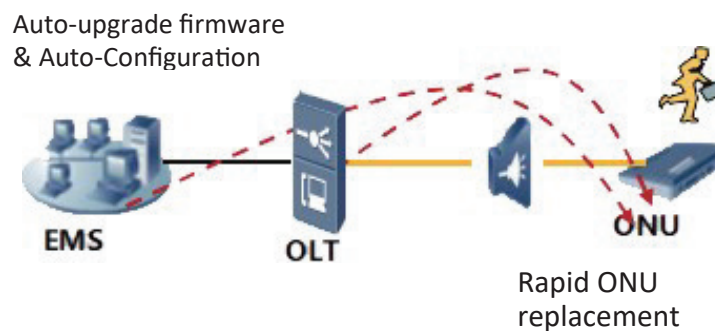| License Management	ONT limit	Limit the number of ONU registration, 64-1024, step 64. When th enumber of ONU reach the max number permit, add new onu to system will be refused.
	Time limit	Limit system used time, 30days. Equipment trial license, after 30days of running time, all onus be set offline.
PON mac table		A mac table of pon, including mac address, vlanid, pon id, onu id, gem port id for easier services checking, troubleshooting.
ONU Management	Profile	Including ONU, DBA, TRAFFIC, LINE, SERVICE,ALARM, PRIVATE profiles. All ONU features can be configured by profiles.
	Auto learn	Onu automatically discovery, register, online.
	Auto configure	All features can be automatically configured by profiles when onu auto online—plug and play.

Software function

Support EMS/Web/Telnet(-CLI)/TR069 Configuration

Support ONUs Plug&Play

Rapid operation and maintenance

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