



## LT802 FTTH / GPON OLT

### FTTH/GPON OLT

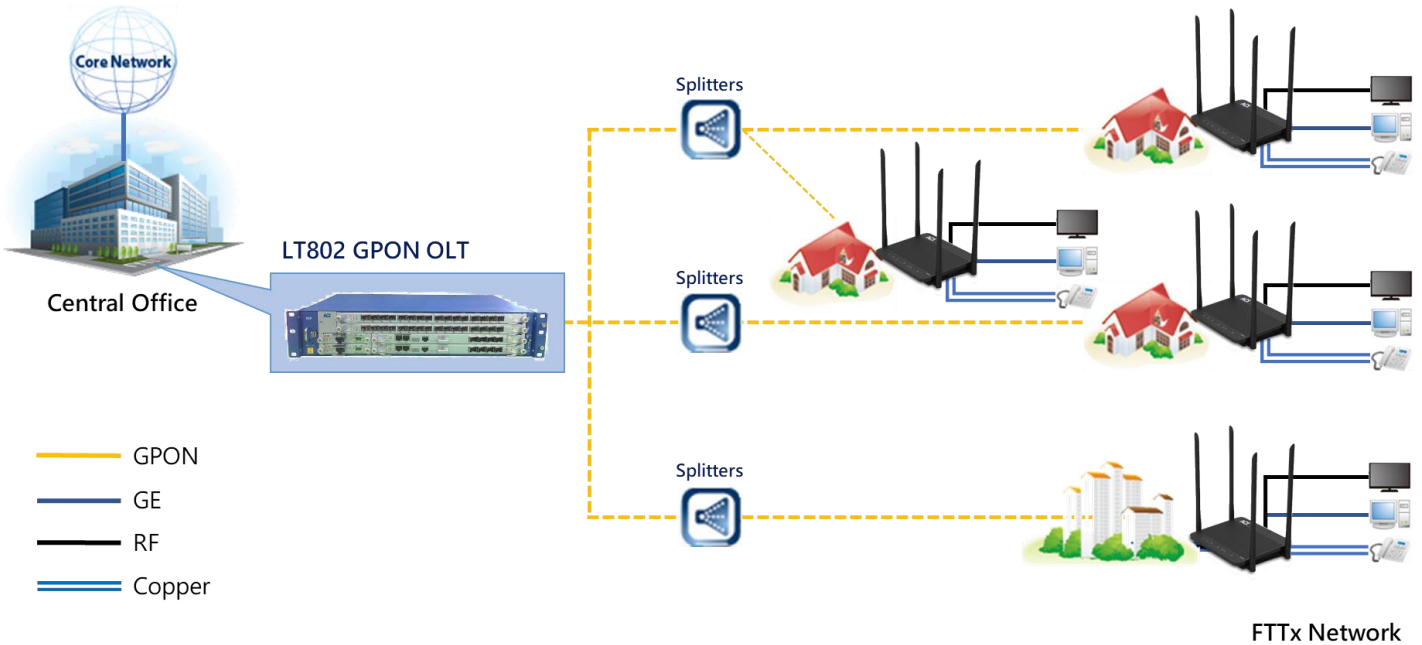
The LT802 is a 2RU height chassis based GPON OLT system with 4 slots for 2 service modular units, 2 switching fabric unit with uplink module to deliver a wide range of full-featured and high-performance over FTTx applications. It is a high-density chassis system that supports up to 4,096 residential and business subscribers with 32 GPON ports (1:128 split ratio). The most compact type GPON OLT Chassis system as supporting GPON Protection in worldwide. LT802 features high capacity GPON access and 10GbE uplink and line rate performance with a 320Gbps non-blocked switch fabric.

The LT802 is ready for XG-PON service, the service line supports the fully 8 ports of XG-PON signal as same chassis. LT802 guarantees a high level of equipment-level reliability with full redundancy design concept of SFU/Power/GPON units. The PON technology adds new features and functionality targeted at improving performance and inter-operability, and adds support for new applications, services, and deployment scenarios.

### Features

- ◆ 32 GPON ports per chassis (16 Port per unit)
- ◆ Ready for 16 XG-PON ports per chassis (8 Port per unit)
- ◆ 4 x 10GE/GE Uplink (Selectable) per slot
- ◆ Multi-service chassis for FTTx deployments with full redundancy
- ◆ Support / delivery of various service types
- ◆ VoIP, IP-TV, high-speed internet, mobile, etc.
- ◆ Non-stop forwarding, Non-stop routing features based on distributed architecture
- ◆ Selective service/uplink modular units for flexible network
- ◆ High capacity GPON access and 10GbE uplink and line rate performance
- ◆ Realtime network traffic monitoring
- ◆ SNMPv2/v3 with RMON, Alarms
- ◆ L2/L3/L4 classification / Priority management

# FTTx Network Diagram



LT802 OLT Specifications	
General Specifications	Specifications
Flash Memory	8MB (Boot) + 64 MB (NOS)
SDRAM	2GB (DDR3)
Service Port	2 Slot for SIU (Service Interface Unit): - SIU_GPON16: 16 GPON (SFP, SC/PC)
Uplink Port	2 Slots for NIU (Network Interface Unit): - NIU_10GE4: 4x 10GE Ports (SFP+) or 4 GE Port (SFP)
Management	Management Interface: - 1 Port RS-232 for Console (RJ45) - 1 Port Tx for MGMT (RJ45) - 1 Port for microSD Interface
MAC Table	176 K (UFT)
Routing Table	8K (IPv4) / 8K (IPv6)
VLAN	4K
Switching Capacity	320 Gbps
Operating Temp.	-15°C to 55°C
Operating Humidity	0 to 90% (non-condensing)
Power Voltage	Input: -48 VDC (redundancy)
Dimension (W x H x D)	482.6 x 88.5 x 280 mm

Capabilities	Specifications
Layer 2	Standard Ethernet Bridging Port / Subnet / Protocol - based VLAN Spanning Tree: STP, RSTP, MSTP 802.3ad Link Aggregation
Layer 3	IPv4 / IPv6 Routing RIPv1/v2, OSPFv2, BGPv4 Virtual Router Redundancy Protocol (VRRP)
Multicast	IGMP v1/v2/v3, PIM-SM/SSM IGMP Snooping Multicast VLAN Registration (MVR)
GPON	GPON OLT Compliant with ITU-T G.984 Remote ONT/MDU Management Automatic ONT Ranging Multiple T-CONTs per MDU (ONT) Supports up to 64 (max 128) Connections Over a Single Fiber
Management	Serial / Telnet (CLI) SNMPv1/v2/v3, RMON
MPLS (*Plan)	RSVP-TE and Path Protection and Local Repair (Head-End) Role EXP- Based QoS Clock Sync*: BITS IEEE 1588v2, SyncE
QOS	Traffic Scheduling (SP, WRR, DRR) 8 Queue per Port Advance Traffic Management - Metering, Egress Shaping

Ordering Information	
Part Number	Description
LT802-CHS	LT802 CHASSIS 2RU 32 GPON PORT OLT
LT802-SIU-GP16	LT802 16-Port GPON Subscriber Interface Module
LT802-SIU-XGSP08	LT802 8-Port XGS-PON Interface Module
LT802-SIU-BPNL	LT802 Blank Panel for Subscriber Interface Module
LT802-SNI-32XGE04	LT802 SFU Switching Capacity: 320 Gbps NNI: 4 port 1/10GBase-R (SFP+)
LT802-PSU-DC	LT802 -48VDC Power Supply
LT802-FANU	LT802 Fan Module
LT802-DFT	LT802 Dust Filter



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Rev C 7-10-2019 Printed in U.S.A.  
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