



## LT806 FTTH / GPON OLT

### FTTH/GPON OLT

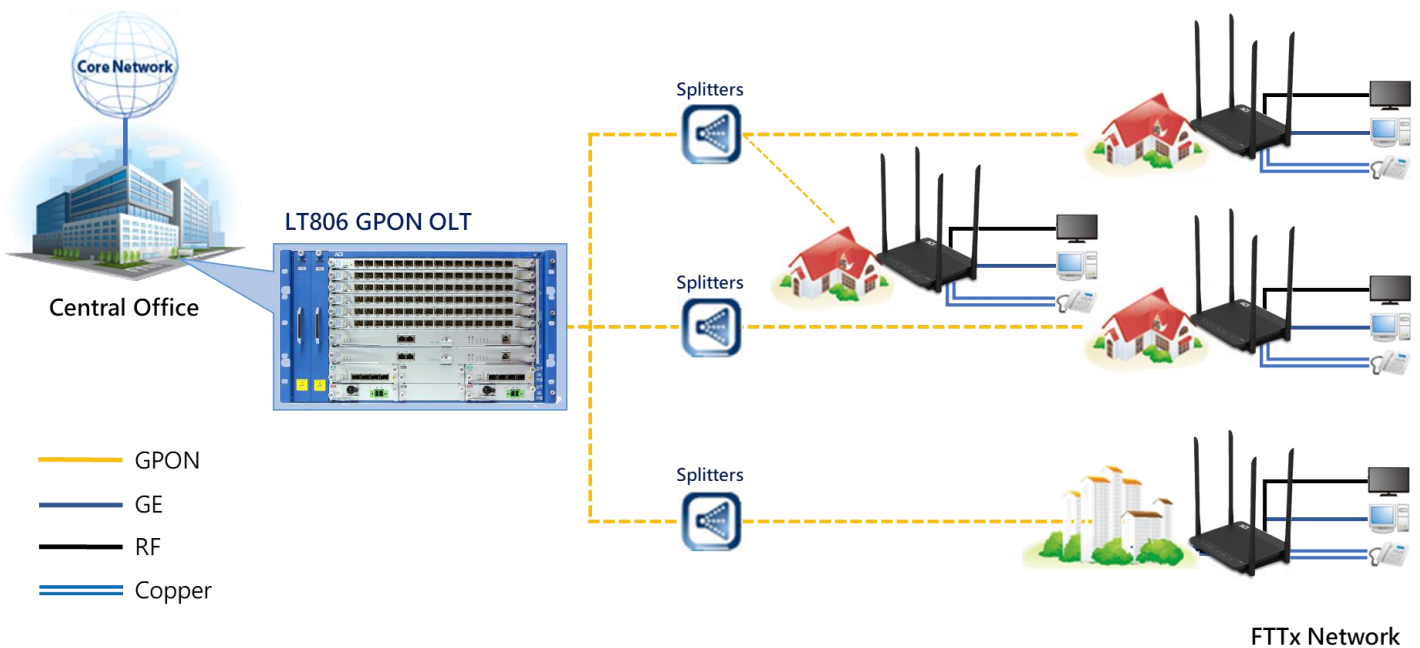
The LT806 is a 6RU height chassis based GPON OLT system which is comprised of 10 slots for 6 service modular slots, 2 switching fabric slots and 2 uplink slots for delivering a wide range of full-featured and high-performance over FTTx applications. It is a high-density chassis system that supports up to 6,144 residential and business subscribers with 96 GPON ports (1:64 split ratio). The most compact type GPON OLT chassis system supporting GPON protection worldwide. LT806 features high capacity GPON access and 10GbE uplink and line rate performance with a 960 Gbps non-blocked switch fabric.

The LT806 is ready for XG-PON services, the service line card fully supported by 8 ports of XG-PON signal in the same chassis. LT806 guarantees equipment-level reliability with full redundancy design concept for all SFU / Power / GPON modules. 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

- ◆ 96 GPON ports per chassis (16 Port per Unit)
- ◆ Ready for 48 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
- ◆ Non-stop forwarding, Non-stop routing features based on distributed architecture
- ◆ VoIP, IP-TV, high-speed internet, mobile, etc.
- ◆ Selective service/uplink modular units for flexible network
- ◆ High capacity GPON access and 10GbE uplink and line rate performance
- ◆ Realtime network traffic monitoring
- ◆ Common & CLI via console/telnet
- ◆ SNMPv2/v3 with RMON, Alarms
- ◆ L2/L3/L4 classification / priority management

## FTTx Network Diagram



LT806 OLT Specifications	
General Specifications	Specifications
Flash Memory	8MB (Boot) + 128 MB (NOS)
SDRAM	4GB (DDR3)
Service Port	6 Slot for SIU (Service Interface Unit): - SIU_GPON16: 16 GPON (SFP, SC/PC) - SIU_GPON16T*: 16 GPON (SFP, SC/PC) - SIU_XGPON8*: 8XG-PON1 (XFP, 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	32K (Max 288K)
Routing Table	16K (IPv4) / 8K (IPv6)
VLAN	4K
Switching Capacity	960 Gbps
Operating Temp.	0°C to 50°C
Operating Humidity	20 to 80% (non-condensing)
Power Voltage	Input: -48 VDC (redundancy)
Dimension (W x H x D)	482.6 x 280 x 266.4 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
LT806-CHS	LT806 CHASSIS 6RU 96 Port GPON OLT
LT806-SIU-GP08	LT806 8-Port GPON interface Unit
LT806-SIU-GP16	LT806 16-Port GPON interface Unit
LT806-SIU-XGSP08	LT806 8-Port XGS-PON interface Unit
LT806-SIU-BPNL	LT806 Blank panel for SIU
LT806-NIU-10GE04	LT806 4-Port 10GBase-R interface Unit + SFP+ optic module
LT806-NIU-100GE01	LT806 1-Port 100GE interface Unit + QSFP28
LT806-NIU-BPNL	LT806 Blank panel for NIU
LT806-SFU-640G	LT806 SFU Switching capacity: 640 Gbps
LT806-SFU-1360G	LT806 SFU Switching capacity: 1,360Gbps
LT806-CIF-BPNL	LT806 Blank panel for Clock interface Module
LT806-OLP-BPNL	LT806 Blank panel for OLP Module
LT806-PSU-DC	LT806 -48VDC Power Supply
LT806-PSU-BPNL	LT806 Blank Panel for PSU DC
LT806-FANU	LT806 Fan Module
LT806-FANU-BPNL	LT806 Blank Panel for FAN
LT806-DFT	LT806 Dust Filter
LT806-CBD	LT806 Cable Duct



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