ACI

LT508 FTTH / GPON OLT

FTTH/GPON OLT

The LT508 is a compact GPON OLT system with 8 GPON output ports. The LT508 provides flexibility with 4 optical uplink ports (10GBase-T/1GBase-T) & 4 electrical uplink ports (100/1000 Base-T). This makes the LT508 and excellent solution to provide FTTx service to the areas that have a low density of population or a small number of subscribers with a low capital cost.
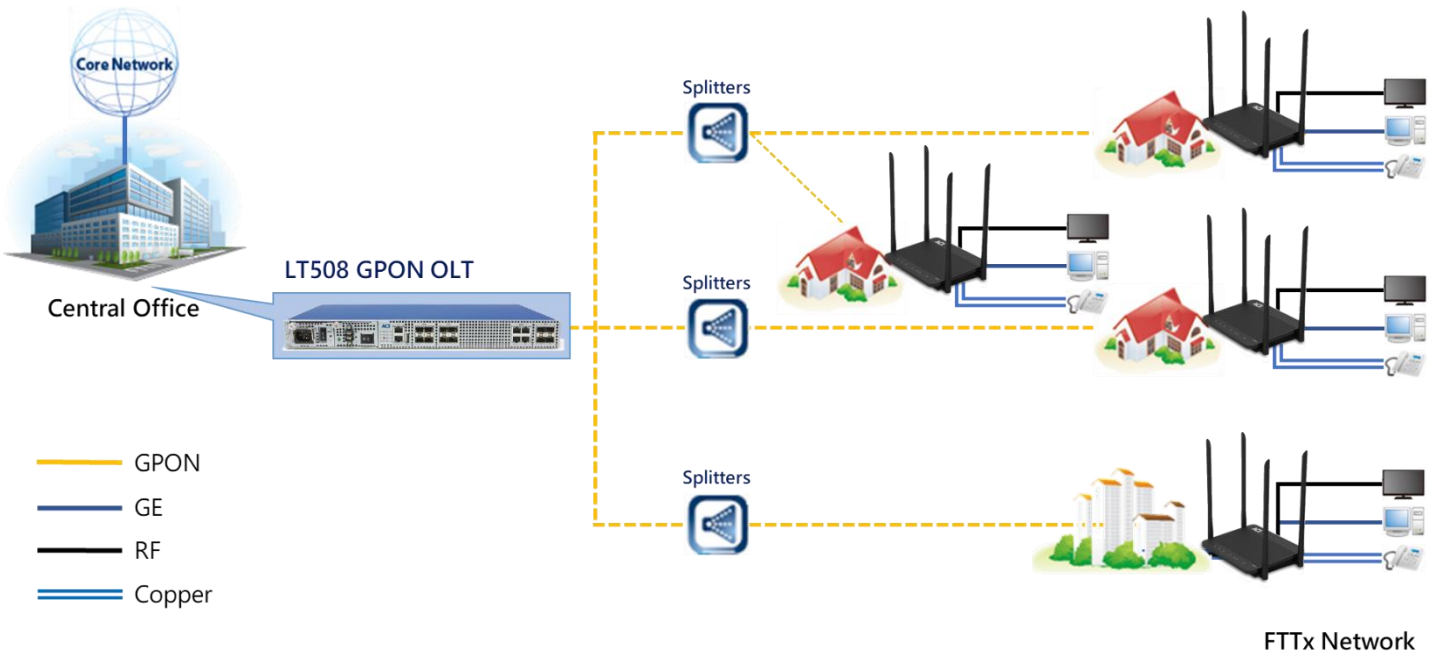
LT508 meets requirements for flexibility and reliability in a compact 1 RU footprint.
The LT508 supports the module-type power supply (AC/DC), Powering is redundant and hot swappable. All configuration access is on the front panel making this unit very user friendly. Reliable operation and service are guaranteed through power redundancy, which prevents the system shutting down at a power-related failure.

The LT508 has a module-type power supply, 10 Gigabit uplink ports (SFP+) and Gigabit uplink ports (100/1000Base-T), to cover a wide range of different applications.

Features

- 128 Gbps Switching Capacity
- 8 GPON ports, 10GigE (Optical) 4 ports and GigE (Electric) 4 ports
- High Capacity Uplink/Service Interface 2.5Gbps (down) / 1.25Gbps (up)
- Cost-Effective
- Network and local access interface.
- IGMP support for IPTV applications

- Modular-type power supplies
- Reliable FTTx service with power redundancy system
- Improved QoS and differential traffic service
- Fully Managed via ACI's on-board Network Management System
- SNMPv2/v3 with RMON and Alarming

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FTTx Network Diagram

FTTx Network

| GPON |
| GE |
| RF |
| Copper |

LT508 OLT Specifications	
General Specifications	**Specifications**
Flash Memory	8MB (Boot) + 64 MB (NOS1) + 64 MB (NOS2)
SDRAM	1GB (DDR3)
Service Port	8 x GPON (SFP, SC/PC Type)
Uplink Port	4 x GE Electric Port [100/1000BaseT (RJ45)] 4 x 1G/10GBase-TX (SFP+) Ports
MGMT Port	1 x 100/1000Base-TX (RJ45)
Console Port	1 x Console (RS232)
External Port	1 x USB 2.0
MAC Table	16K (Max 288K)
VLAN	4K
Switching Capacity	168 Gbps
L3 Host (IPv4/IPv6)	1.5K / 768
L3 LPM (IPv4/IPv6)	512 / 512
L2 Multicast	1K
Operating Temp.	-20ºC to 60ºC
Operating Humidity	0 to 90% (non-condensing)
Power Voltage	AC Type: 100-240 VAC, 50/60 Hz DC Type: -48 / 60 VDC
Dimension (W x H x D)	440 x 44 x 300 mm

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Capabilities	Specifications
Layer 2	Standard Ethernet Bridging Port / Subnet / Protocol - based VLAN Spanning Tree: STP, RSTP, MSTP 802.3ad Link Aggregation Flow Control
Layer 3	L3 Host (IPv4/IPv6) 1.5K / 768 Static Routing RIPv1/v2, OSPFv2, BGPv4, VRRP 1K L2 Multicast
Multicast	IGMP v1/v2/v3, PIM-SM/SSM IGMP Snooping Multicast VLAN Registration (MVR)
GPON	ITU-T G.984 Compliant Support ITU-T G.984.4 ONT Management & Control Interface (OMCI) Remote ONT / ONU Management Automatic ONT Ranging 4K Port-ID and 1K Alloc-ID
Security	Secure Shell (SSH) v1 / v2 802.1x RADIUS, TACACS+ Authentication Storm Control
Management	Serial / Telnet (CLI) SNMPv1/v2/v3 DHCP Server, Relay Agent with Option82 Remote Monitoring (RMON) Syslog, Port Mirroring

Ordering Information	
Part Number	Description
LT508-SOLT	LT508 CHASSIS 1RU 8 GPON PORT OLT Without Power Supply
LT508-SOLT-DC	LT508 CHASSIS 1RU 8 GPON PORT OLT With -48 VDC Power Supply
LT508-SOLT-AC1	LT508 CHASSIS 1RU 8 GPON PORT OLT With 100-220 VAC Power Supply North American Power Cord
LT508-FANU	LT508 Fan Module
LT508-PSU-DC	LT508 -48 VDC power Supply unit
LT508-PSU-AC1	LT508 AC power supply (100-220 VAC)

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