



## LT504 FTTH / GPON OLT

### FTTH/GPON OLT

The LT504 is a compact GPON OLT system with 4 GPON output ports. The LT504 provides flexibility with 4 optical uplink ports (10GBase-T/1GBase-T) & 4 electrical uplink ports (100/1000 Base-T). This makes the LT504 an 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.

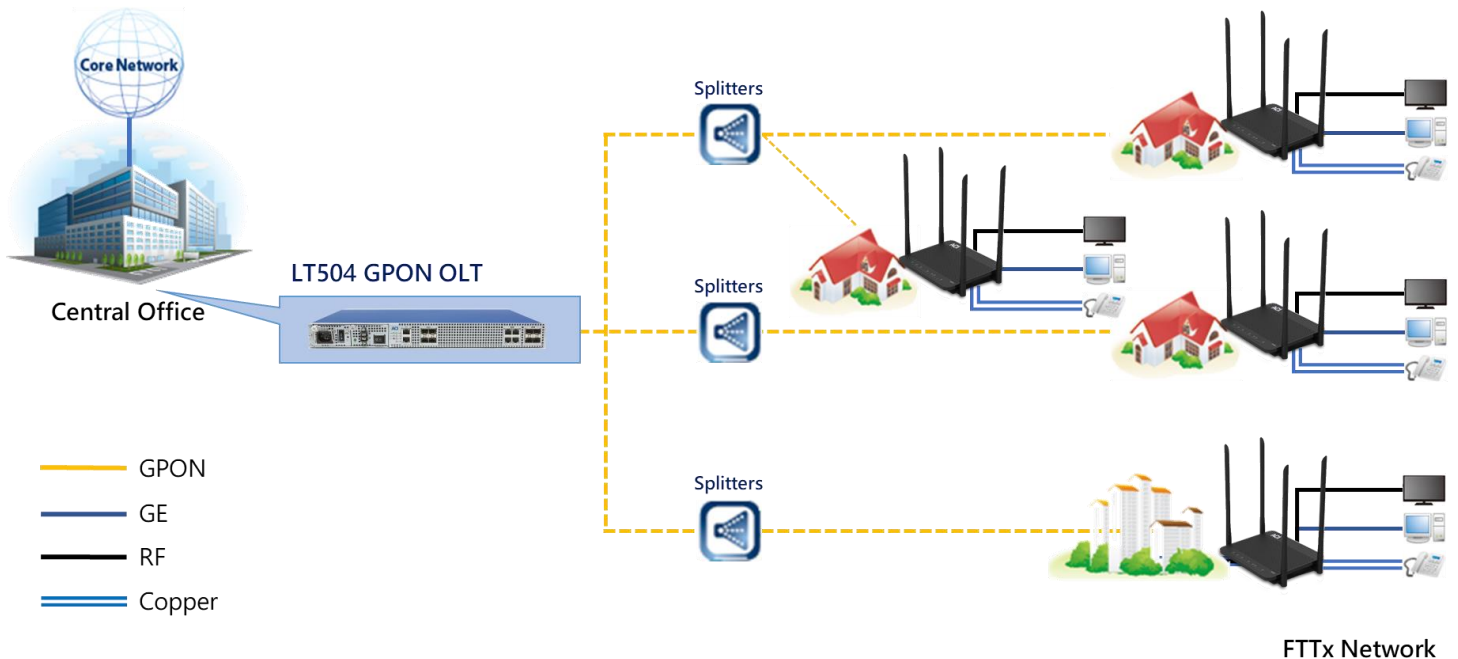
The LT504 has plug-in module-type (AC or DC) power supplies, powering is redundant and hot swappable. All configuration access is on the front panel making this unit very user friendly. Reliable operation is increased through power redundancy that prevents the system shutting down with a power supply failure.

The LT504 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
- ◆ 4 GPON ports, 10GE 4 ports and GE (Electric) 4 ports
- ◆ High Capacity Uplink/Service Interface 2.5Gbps (down) / 1.25Gbps (up)
- ◆ Easy to install
- ◆ Cost-Effective
- ◆ Modular-type power supply
- ◆ Reliable FTTx service with power redundancy system
- ◆ Improved QoS and differential traffic service
- ◆ IGMP support for IPTV applications
- ◆ Fully Managed via ACI's Network Management System
- ◆ SNMPv2/v3 with RMON and Alarming

# FTTx Network Diagram



FTTx Network

LT504 OLT Specifications	
General Specifications	Specifications
Flash Memory	8MB (Boot) + 64 MB (NOS1) + 64 MB (NOS2)
SDRAM	1GB (DDR3)
Service Port	4 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	128 Gbps
L3 Host (IPv4/IPv6)	1.5K / 768
L3 LPM (IPv4/IPv6)	512 / 512
L2 Multicast	1K
Operating Temp.	-20°C to 65°C
Operating Humidity	0 to 90% (non-condensing)
Power Voltage	AC Type: 100-220 VAC, 50/60 Hz DC Type: -48 / 60 VDC
Dimension (W x H x D)	440 x 44 x 270 mm

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
LT504-SOLT	LT504 CHASSIS 1RU 4 GPON PORT OLT Without Power Supply
LT504-SOLT-DC	LT504 CHASSIS 1RU 4 GPON PORT OLT With -48 VDC Power Supply
LT504-SOLT-AC1	LT504 CHASSIS 1RU 4 GPON PORT OLT With 100-220 VAC Power Supply North American Power Cord
LT504-FANU	LT504 Fan Module
LT504-PSU-DC	LT504 -48 VDC power supply
LT504-PSU-AC1	LT504 AC power supply (100-220VAC)



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