



## LT516 FTTH / GPON OLT

### FTTH/GPON OLT

The LT516 is a compact 1 RU tall GPON OLT system with 16 GPON output ports. The LT516 provides flexibility with 4 optical uplink ports (10GBase-T/1GBase-T) & 4 electrical uplink ports (100/1000 Base-T). This makes the LT516 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.

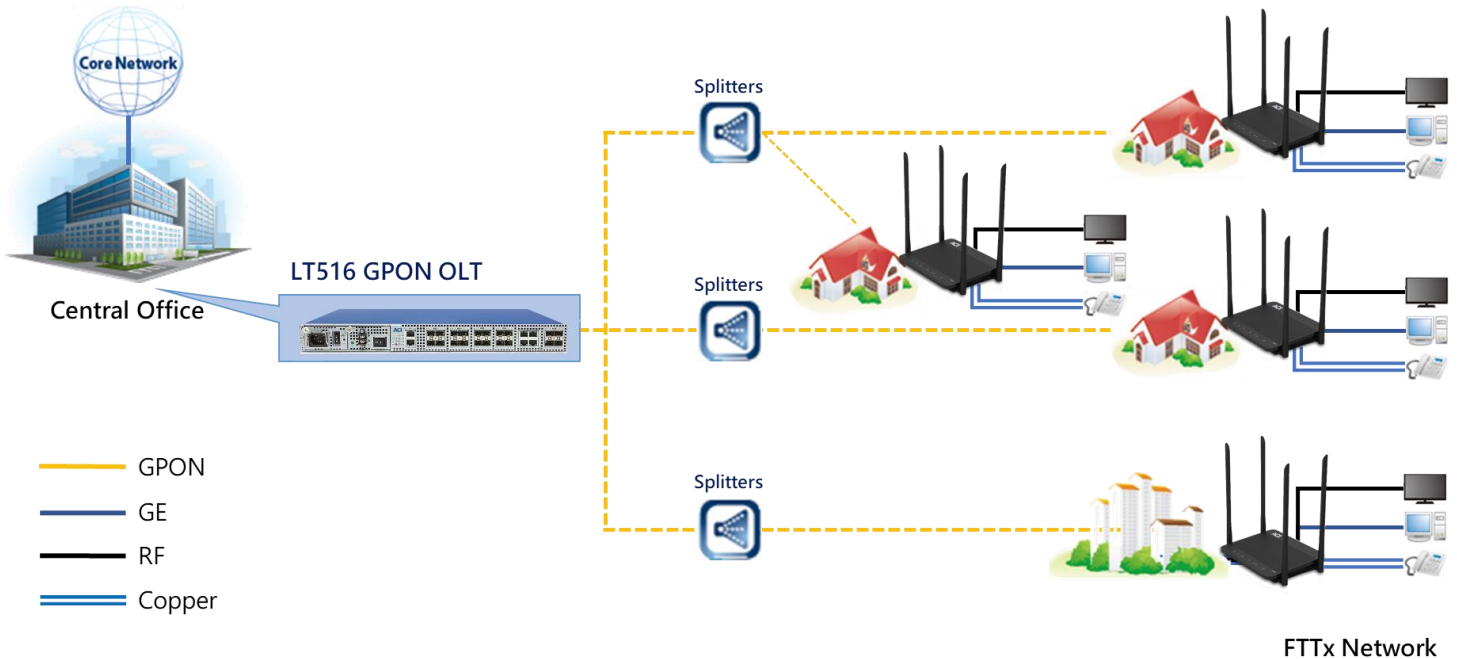
The LT516 has plug-in module-type (AC or DC) power supplies, powering is redundant and hot swappable. All configuration access is on the front panel making this unit very user friendly. Reliable operation is increased through power redundancy that prevents the system shutting down with a power supply failure.

The LT516 has a module-type power supply, 10 Gigabit uplink ports (SFP+) and Gigabit uplink ports (100/1000Base-T) that covers a wide range of different applications.

### Features

- ◆ 168 Gbps Switching Capacity
- ◆ 16 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



LT516 OLT Specifications	
General Specifications	Specifications
Flash Memory	8MB (Boot) + 64 MB (NOS1) + 64 MB (NOS2)
SDRAM	1GB (DDR3)
Service Port	16 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.	-20°C to 60°C
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

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
LT516-SOLT	LT516 CHASSIS 2RU 32 GPON PORT OLT Without Power Supply
LT516-SOLT-DC	LT516 CHASSIS 2RU 32 GPON PORT OLT With -48 VDC Power Supply
LT516-SOLT-AC1	LT516 CHASSIS 2RU 32 GPON PORT OLT With 100-220 VAC Power Supply North American Power Cord
LT516-FANU	LT516 Fan Module
LT516-PSU-DC	LT516 -48VDC Power Supply
LT516-PSU-AC1	LT516 AC Power Supply (100-220VAC)



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