

# Optical Line Termination OLT1500

[www.ExFiber.com](http://www.ExFiber.com)



## Description

The GEAPON system uses a single optical fiber for both upstream and downstream transmission. Downstream traffic is sent via 1490nm wavelength and upstream traffic uses the 1310nm wavelength. The 1550nm wavelength is reserved for future CATV or wavelength division multiplex (WDM) upgrading. It is a fiber to the Home (FTTH) platform providing up to 1Gb/s Ethernet data and optionally video and voice on IP(VOIP)services to commercial and residential end users.

## Feature

- IEEE802.3ah compatible
- 8 downstream PON ports
- 32 optical branches per OLT port for connection of up to 32 ONUs
- Downstream transmission up to 20kilometers
- 256 subscribers served in one compact 2U chassis
- Advanced L2/L3 switching and routing functions
- Remote provisioning and management
- Advanced security via Access Control List(ACL)
- Support unblocked wire speed forwarding
- Support TCP/IP, ICMP, ARP, OSPF, BGP, RIP, PIM-SM, PIM-DM, IGMP protocol

## Specification

Item	Unit	Specification
Optical characteristics		
Optical fiber		Single fiber, SM
Connector type		LC or SC connector
Max split		32
Data rate		1 Gbps up and down stream
Optical loss budget	dB	29dB for PON link
Transmit power	dBm	2.0 ~7dBm

For detailed inquiry please contact our sales team at [sales@exfiber.com](mailto:sales@exfiber.com)

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RMS		0.44nm
Extinction ratio	dB	6dB
Operation wavelength	nm	Down-TX: 1490nm, Up-RX: 1310nm
Max. reach	km	20km
Electrical performance		
Uplink port		4 RJ45 and 4 SFP module ports
Downlink PON port		8 SFP PON ports(max 2 PON card)
Compliance		IEEE802.3ah
Number of MAC table	K	16K
Number of VLAN		4096(IEEE802.1q)
Number of router table		4096
Number of ACL		2048
Downlink connector		LC or SC connector
User authentication		IEEE 802.1x PPOE forwarding
QoS		8 QoS queue/ONU users IEEE 802.1q&p IPV4 ToS priority queues DBA
Security		ACL AES-128 encrypted
VOIP protocol		SIP protocol and H.248
Management		CLI, WEB, TELNET
General		
Power supply	V	AC 100 ~240V
Power consumption	W	100W
Dimensions	mm	440mm *370mm *44mm
Weight	kg	

## Application

- u Triple-play(GEPON)
- u FTTx (FTTH, FTTP, FTTB, FTTC)

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