

## 4-16PON GEPON OLT

### Introduction

Fiber Optic Telecom’s GEPON OLT bases on mature Ethernet Passive Optic Network technology and complies with IEEE.802.3ah EPON standard. It is used to connect and manage EPON ONU/HGU and provides high-speed data, voice and video service to the users in fiber to the home network (FTTH).



### Features

- Support 1.25G and 10Gigabit EPON optical fiber uplink, support non-blocking line-speed switch.
- 2.5U rack compact height, with up to max16 EPON ports on the front of device.
- Support comprehensive services, such as broadband network access, Audio, IPTV, TDM and etc.
- Support single master control line card, single uplink line card, single power supply line card and 4 EPON service line card.
- Support AC/DC dual power supply for redundant backup, and UPS charging and alarm system.
- Support flexible controllable multi-cast, including IGMP Proxy/Snooping and etc.
- Support rich VLAN extension functions, including VLAN Stacking/ Trunk/ Translation, etc.
- Support flexible DBA, upstream/downstream speed-limited with accuracy of 0.2% (Standard requirement<5%)
- Support multi LLID and IEEE802.1p, provide multi protection QoS service.

### Specifications

Item	Description
Model	OLT-2516E

Standard	IEEE802.3ah
OLT chassis	1pc OLT chassis, include 10Gigabit core switch backboard
Master control line card (SWA)	1pc, 10Gbps non-blocking switch, support hot swappable 1 FE out of band management port, compliant with 100Base-TX technical standard, 1 debug console ports, compliant with RS232 technical standard
EPON port line card(EP4)	Max 4pcs,4 EPON ports each line card, max 16 EPON ports, compliant with IEEE802.3-2005 EPON technical standard, support 20km transmission distance 1 Monitor and alarm port, comply with RS485 standard (support monitoring the status of brand and node) support hot-swappable
Uplink line card(HUP)	1pc,support 4GE SFP+10GE XFP, (electrical or optical SFP optional), support hot-swappable
Fans line card (FAN16)	1pc, hot-swappable
Power line card(PWR)	220VAC/48VDC (With UPS charger). Dual power supply for redundancy backup. AC: 176 ~ 264 VAC DC:36 ~ 75 VDC
Switch function	10Gigabit switch backboard(Switch capability reach up to 60Gbps), non-blocking line speed switching 16K MAC address table, support 2K multicast table, support 4K VLAN(802.1Q) Up to 1*10GE, 4* uplink GE aggregation(IEEE 802.ad), support up to 5 aggregation groups, support port mirroring based on output port
VLAN	Support IEEE 802.1Q VLAN, support 4K concurrent VLAN Strong VLAN extension functions, support VLAN Stacking/Trunk/Translation and flexible QinQ, etc
RSTP	Support STP, RSTP
IGMP	Support IGMPv1/v2 protocol, support IGMP Snooping/Proxy, support controllable multicast
QoS & ACL	Support CAR(Committed Access Rate), flow rate limit granularity is 64Kbps,

	<p>Support priority level remarking based on port ID, MAC address, VLAN, 802.1p, DiffServ and/or IP ToS priority</p> <p>Support flexible queue scheduling algorithm, Support port-based and queue-based configuration simultaneously, support three queue dispatch strategies, such as SP(Strict Priority), WRR(Weighted Round Robin) and hybrid mode(SP+WRR)</p> <p>Provide illegal frame filter and packet filter that based on sources MAC(Media Access Control)address, sources IP address, destination IP address, port, etc.</p> <p>Support QoS Profile management, allow user draw up QoS service plan</p>
Storm suppression	Support storm suppression of broadcast, multicast and DLF broadcast based on PPS
Flow control	Support IEEE 802.3x flow control in Full duplex mode, support backpressure flow control in half duplex mode
Encryption & security	<p>Support LLID MAC address biding and registration control of ONU. Prevent illegal ONU trick</p> <p>Support ONU isolation control within same EPON network</p> <p>Support encrypted boost configuration</p>
Configuration recovery	Support ONU off line configuration, and configuration auto-issued when registered
Link test	Support EPON network link diagnosis by Ping and Link test
Management	<p>Support FTP, Telnet, Console</p> <p>Support in/out-of-band management</p> <p>Support SNMPv1/v2, support IEEE802.3ah OAM</p>
Management function	<p>Support equipment configuration management, performance management, fault management, sources management, safety management and etc.</p> <p>Support ONU remote management, remote batch configuration download, software remote auto-update</p> <p>Support ONU offline configuration, and configuration auto-issued when registered</p> <p>Support ONU line diagnosis and distance</p>

	measuring
Redundant backup	Support AC/DC dual power for redundant
Dimension (W*H*D)	486*103*384mm
Weight	5KG
Power consumption	<40W
Operation Temp.	0~ +55℃
Storage Temp.	-30 ~ +70℃
Humidity	10~90% (non-condensing)

## Application

