

## EPON OLT

### PTF3004



### Description:

PTF3004 EPON OLT is a 1U standard rack-mounted equipment complying with IEEE802.3ah, YD / T 1475-2006 and CTC 2.1 .It has flexible, easy to deploy, small size, high performance and other characteristics. The product is particularly suitable for residential broadband fiber access (FTTx), telephone and television "triple play", the power consumption information collection, video surveillance, networking, private network applications and other applications.

### Features:

- Supports dynamic bandwidth allocation (DBA), the bandwidth granularity 64Kbps;
- Support ONU auto-MAC binding and filtering, support the ONU offline business configuration and automatically configure;
- Support PON port isolation, support triple churing encryption;
- Support 4096 VLAN additions, transparent transmission and conversion, support

VLANstacking(QinQ);

- support 32K MAC’s line speed learning and aging, support MAC address restriction;
- Support IEEE 802.1d (STP), 802.1w (RSTP) Spanning Tree Protocol;
- Support IGMP v1/v2 Snooping and Proxy, support CTC controllable multicast;
- Support priority queue scheduling, support SP, WRR or SP + WRR scheduling algorithm;
- Supports port speed, support packet filtering;
- support port mirroring and port trunking;
- Provide logs, alarms and performance statistics;
- Support SNMP v1/v2c network.

## Specification

Item	Parameter	Description
<b>Interface Specifications</b>	Uplink Port	Quantity : 4pcs Optical or electrical interface, comes with Gigabit SFP optical modules or Gigabit SFP electrical interface module ;
	PON interface	Quantity: 4pcs Physical interface: SFP slots Maximum splitting ratio: 1:64
	Management port	Provide 10/100Base-T RJ45-band network management port can manage the in-band network through any GE uplink port Provide local configuration port

<p><b>Data exchange</b></p>		<p>3 layer Ethernet switching, switching capacity 200Gbps, to ensure non-blocking switching</p>
<p><b>Business Features</b></p>	<p>Network management</p>	<p>Support local or remote CLI management configuration;                      Support SNMP v1/v2c network management, support band, in-band network management;                      Support the standard of broadcasting industry "EPON + EoC" SNMP MIB and support auto-discovery protocol EoC headend (BCMP);                      Open interfaces for third-party network management;</p>
	<p>Management maintenance</p>	<p>Support OLT configuration save, support restore the factory settings;                      support OLT online upgrade;                      support ONU offline service configuration and automatically configure ;                      Support ONU remote upgrade and batch upgrade;</p>
	<p>EPON standard</p>	<p>Comply with IEEE802.3ah、 YD/T 1475-200 and CTC 2.1 standard</p>
	<p>Dynamic bandwidth</p>	<p>Support fixed bandwidth, guaranteed bandwidth, maximum bandwidth, priority, etc. SLA parameters;</p>

allocation (DBA)	Bandwidth granularity 64Kbps
Security Features	Support PON line AES and triple churing encryption; Support ONU MAC address binding and filtering;
3-layer exchange	Support static routing
VLAN	Support 4096 VLAN additions, transparent transmission, conversion and deletion; Support VLAN based on Port, MAC address, protocol and IP subnet; Support VLAN Stacking (QinQ)
MAC address learning	Support 32K MAC addresses; Hardware-based wire-speed MAC address learning; Based on port, VLAN, link aggregation MAC restrictions;
Spanning Tree Protocol	Support IEEE 802.1d (STP), 802.1w (RSTP) Spanning Tree Protocol
Multicast	Support IGMP Snooping and IGMP Proxy, support CTC controllable multicast;

		Support IGMP v1/v2
	NTP protocol	Support NTP protocol
	Quality of Service (QoS)	Support 802.1p priority queue scheduling; Support SP, WRR or SP + WRR scheduling algorithm;
	Access Control Lists (ACL)	According to the destination IP, source IP, destination MAC, source MAC, destination protocol port number, source protocol port number, SVLAN, DSCP, TOS, Ethernet frame type, IP precedence, IP packets carried protocol type ACL rules set; Support the use of the ACL rules for packet filtering; Support Cos ACL rule using the above settings, IP priority setting, mirroring, speed limit and redirect the application;
	Flow Control	Support IEEE 802.3x full-duplex flow control; Support port speed;
	Link Aggregation	Support 4 port aggregation group, each group supports four member ports
	Port Mirroring	Support the port mirroring of uplink

		interfaces and PON port
	Log	<p>Support by the alarm log output level shield;</p> <p>Support for logging output to the terminal, files, and log server</p>
	Alarm	<p>Support four alarm levels (severity, major, minor, and warning);</p> <p>Support 6 alarm types (communication, quality of service, processing error, hardware equipment and the environment);</p> <p>Support alarm output to the terminal, log and SNMP network management server</p>
	Performance Statistics	<p>Performance statistics sampling time 1 ~ 30s;</p> <p>Support the 15 minutes performance statistics of uplink interfaces 、 PON port and ONU user port</p>
<b>Physical Features</b>	LED indicator	<p>ALM, PW1, PW2 indicate the system running, alarm, power supply status;</p> <p>PON1 to PON4 instruct 4 PON ports LINK and Active state;</p> <p>GE1 to GE4 instruct 4 GE uplink interfaces LINK, and Active status</p>
	Power supply	220V / 1A AC power input (available upon request optional AC or DC, single or dual power supply products);

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		Typical power consumption 60W;
	Weight	4.6 Kg
	Operating Temperature	0~55°C
	Size	322.1mm* 482.60mm* 44.7mm