

OLT EPON

Model: OLT-EPON-404D

Product Overview

Ethernet Passive Optical Network (EPON), defined by IEEE 802.3ah, is a point to multipoint (Pt-MPt) network topology implemented with passive optical splitters, along with optical fiber PMDs that support this topology.

EPON OLT, also called an optical line terminal, is a device located at the service provider endpoint of a passive optical network. It performs two main functions:

It converts the electrical signals used by the service provider's equipment and the fiber optic passive component signals used by the passive optical network. Supports multiplexing between the conversion devices on the other end of that network (called either optical network terminals or optical network units).

Product Appearance



Key Feature

- ❖ Add ONT position information in compliant with IEEE802.3ah standard
- ❖ Port-based rate limitation and bandwidth control
- ❖ Data encryption, multi-cast, port VLAN, separation, RSTP, etc
- ❖ Dynamic Bandwidth Allocation (DBA)
- ❖ ONU auto-discovery/link detection/remote upgrade of software
- ❖ VLAN division and user separation to avoid broadcast storm
- ❖ Support various LLID configuration and single LLID configuration
- ❖ Power-off alarm function, easy for link problem detection
- ❖ Broadcasting storm resistance function
- ❖ Port isolation between different ports
- ❖ ACL to configure data packet filter flexibly
- ❖ Dynamic distance calculation on EMS online

Technical Specifications

For other technical specifications, see the following table:

Product	PON Interface	Uplink	Chipset
404D	4*EPON Port	4×GE(RJ45)+4×GE/10GE(SFP/SFP+)	Broadcom

Product Feature

Item	EPON OLT	
Chassis	Rack	1U 19 inch standard box
1000M Uplink Port	QTY	8
	RJ45	4
	SFP/SFP+	4
EPON Port	QTY	4
	Physical Interface	SFP Slots
	Connector Type	PX20++

	Ø	• IEEE802.x flow control
	Ø	• Port stability statistic and monitoring
	Ø	• Support P2P Function
Multicast	Ø	• IGMP snooping
	Ø	• 256 IP Multicast Groups
DHCP	Ø	• DHCP server
	Ø	• DHCP relay
	Ø	• DHCP Snooping
Layer 3 Features	Ø	• ARP proxy
	Ø	• Static route
	Ø	• 1024 Hardware Host Routes
	Ø	• 512 Hardware Subnet Routes
	Ø	• Support RIPv1/v2. OSPFv2/v3
	Ø	• Support PPPoE/PPPoE*
Security Management	Ø	• Support IEEE802.1x, Radius, Tacacs+
	Ø	• Support DHCP Snooping, DHCP Opiton82, IP Source Guard
	Ø	• Support HTTPs, SSHv2
IPv6 Feature	Ø	• Support IPv6 Neighbour Discovery, SLAAC Snooping
	Ø	• Support DHCPv6 Server, DHPCv6 Relay, DHCPv6 Snooping
	Ø	• Support IPV6 Static Route
	Ø	• Support IPV6 Dynamic Route Protocol: RIPng, OSPF6
	Ø	• Support MLD V1/V2
	Ø	• Support IPv6 ACL
	Ø	• Support IPv6 SNMP, Telnet, Https, SSH
	Ø	

Key Features

- ❖ STP/RSTP/MSTP
- ❖ IGMP Snooping
- ❖ DHCP Snooping
- ❖ ACL
- ❖ VLAN Translation/Q-in-Q
- ❖ Port Mirroring
- ❖ Port Aggregation
- ❖ L3 Static Route, RIP/OSPF
- ❖ Dynamic Bandwidth Allocation
- ❖ SNMP/Telnet/CLI/WEB/SSH

EMS Key Features

- ❖ Support C/S & B/S architecture
- ❖ Support auto topology or modify manually
- ❖ Add Trap Server to detect ONT automatically
- ❖ EMS can add and configure ONT automatically
- ❖ Add ONT position information
- ❖ Support EMS APP

