

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).





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	
	QTY	8	
1000M Uplink Port	RJ45	4	
	SFP/SFP+	4	
	QTY	4	
	Physical Interface	SFP Slots	
EPON Port	Connector Type	PX20++	

CATVIS	Max splitting ratio	0.086111111
Dimension (LxWxH)		442x200x43.6mm
Weight		3.2kg
Power Supply		AC 100~240 V, 50/60 Hz
DC Power Supply		DC: -48V
Power Consumption		30W
Operating Environment	Working Temperature	0~+50°C
	Storage Temperature	-40∼+85°C
	Relative Humidity	5~90% (non-conditioning)

Software Feature

Item		OLT-EPON-404D
Management Ports	Ø	1*10/100BASE-T out-band port, 1*CONSOLE port
	Ø	Transmission Distance: 20KM
	Ø	EPON Port Speed* Symmetrical 1.25 Gbps
	Ø	Wavelength: TX-1490nm, RX-1310nm
PON Port	Ø	Connector: SC/UPC
Specification	Ø	• Fiber Type: 9/125μm SMF
	Ø	• TX Power: +4.5dBm~+9dBm
	Ø	Rx Sensitivity: -32dBm
	Ø	Saturation Optical Power: -8dBm
Management Mode	Ø	SNMP/Telnet/CLI/WEB/SSH v2
	Ø	Fan Group Control
Management	Ø	 Port Status monitoring and configuration management
Function	Ø	Online ONU configuration and management
	Ø	User management, Alarm Management
	Ø	• 16K MAC address
	Ø	 Support port VLAN and protocol VLAN
	Ø	Support 4096 VLANs
Layer 2 Feature	Ø	Support VLAN tag/Un-tag, VLAN transparent transmission, QinQ
	Ø	Support IEEE802.3d trunk
	Ø	Support RSTP, MSTP
	Ø	 QoS based on port, VID, TOS and MAC address

CATV	Ø	IEEE802.x flow control
	Ø	Port stability statistic and monitoring
	Ø	Support P2P Function
Multicast	Ø	IGMP snooping
	Ø	• 256 IP Multicast Groups
	Ø	DHCP server
DHCP	Ø	DHCP relay
	Ø	DHCP Snooping
	Ø	ARP proxy
	Ø	Static route
Larra 2 Fratuma	Ø	1024 Hardware Host Routes
Layer 3 Features	Ø	512 Hardware Subnet Routes
	Ø	• Support RIPv1/v2. OSPFv2/v3
	Ø	 Support PPPoE/PPPoE*
	Ø	Support IEEE802.1x, Radius, Tacacs+
Security Management	Ø	 Support DHCP Snooping, DHCP Opiton82, IP Source Guard
Management	Ø	• Support HTTPs, SSHv2
	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
IPv6 Feature	Ø	Support MLD V1/V2
	Ø	Support IPv6 ACL
	Ø	Support IPv6 SNMP, Telnet, Https, SSH

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

4 □ OLTs 📠 Topo 🛕 Alarm 🕍 Chart OLT Information Device Information OLT Configuration Device Basic Information ONU Configuration System Name Profile Configuration System Configuration 2018-2-6 10:18 Running Time O Days O Hours 35 Minutes 59 Seconds CPU Usage mory Usage



