Product Overview

BT-P6104H OLT (Figure 1) is self-developed Compact 1U EPON OLT equipment,meeting the requirements of IEEE802.3ah and meets the EPON OLT equipment requirements of YD/T 1945-2006 Technical requirements for access network——based on Ethernet Passive Optical Network (EPON) and China telecom EPON technical requirements 3.0, possessing super EPON access capacity, carrier-class reliability and the complete security function. It can satisfy long-distance optical fiber access requirement on account of its excellent management, maintenance and monitoring capability, abundant service features and flexible network mode. BT-P6104H can be used with NMS2000 network management system so as to provide users with the perfect solution.

BT-P6104H OLT provides 4 *Downsteam EPON ports, 4 * Uplink GE ETH ports, 4* Uplink SFP+ ports. Up to 1:64 Split ratio for up to 256 EPON users. The 1U pizzabox design is for easy installation, Maintenance and Space saving. BT-P6104H is suitable for Broadcast three in one, video surveillance network, enterprise LAN, Internet of Things, etc.Provide perfect, intelligent, powerful, advanced and professional solutions for FTTH/FTTB projects.

BT-P6104H

ProductSpecifications

Network interface	
EPON interface	4* EPON (1.25/1.25 Gbps)
Uplink Optical Interface	4 * 10GE SFP+
Uplink Ethernet Interface	4 * GE RJ45
PON interface	
EPON	IEEE 802.3ah EPON
Local Management interface	
Console	RJ45 EIA/TIA-232 Console management port
MGMT	100BASE-T out-band management port
Performance	
Switching Capacity	103Gbps
Package transmit rate(IPv4/IPv6)	125Mpps
Split ratio	1: 64
Maximum ONU quantity	256 ONT
Power Supply and Consumption	
Power Adaptor	AC Input::100 to 240 V AC, 50/60 Hz; DC Input : 36V-75V
Redundancy Design	Pluggable double power supply, double AC, double DC and AC+DC
Consumption	＜46 W
Environmental conditions	
Storage	temperature -10 to 70°C, rel. humidity 10–90% (non-condensing)
Operation	temperature -5 to 50°C, rel. humidity 10–90% (non-condensing)
Physical specifications	
Dimensions	440mm×260mm× 44mm(W * D *H)
Weight	2.55KG

Key Feature Support on BT-P6104H

Ethernet switching (L2) features	
VLAN	4K VLAN entries
	Port-based QinQ and Selective QinQ (StackVLAN)
	Port-based/MAC-based/IP subnet-based VLA
Spanning tree	IEEE 802.1x STP/RSTP/MSTP
	ONU remote loop detection
MAC	MAC Black Hole
	Port MAC limit
	16K MAC address
Port	Bi-direction bandwidth control
	Port mirroring and traffic mirroring

Service features		
Multicast	IGMPv1/v2/v3	
	IGMP Snooping/Proxy	
	IGMP filtering	
QoS	Base on port or user-defined rate limitation	
	Base on port or user-defined priority tag, provide 802.1P, DSCP tag ability of priority	
	Base on port or user-defined high grade queue scheduling	
	priority queues and scheduler of SP, WRR and SP+WRR.	
	Congestion avoidance system	
L2	LACP/VLAN Tag / Un-tag/VLAN transmission/QinQ/802.1D/802.1W	
	IEEE802.x Flow Control/Port Isolation/Port Rate Limitation/Storm control	
Routing(L3)	BGP/MPLS/RIP/OSPF/Arp agent,Static routing	
Security features		
User security	Anti-ARP-spoofing deceive defend	
	Anti-ARP-flooding flooding attack automatic control	
	IP，MAC，port and VLAN binding	
	Port isolation	
Device security	Defend DOS attack	
	Security IP login through Telnet	
	Hierarchical management and password protection of users	
	TACACS+	
Network security	IP address、VLAN ID、MAC address and port manual binding	
	Port broadcast /multibroadcast restrain	
	Base on source / destination MAC address,VLAN,802.1p,ToS,DiffServ,source/ destination IP(IPv4/IPv6) address,TCP/UDP port number protocol type of IP package flow classify and flow defined regulation management,support package header 80 byte depth L2-L7 ACLflow filtrate	
	Dynamic ARP table-based binding	
	DHCP Option82 and PPPoE+ upload user's physical location	
Network management	Command-line interface（CLI），Console, Telnet and WEB configuration	
	RMON (Remote Monitoring)1/2/3/9 groups of MIB	
	System configuration with SNMPv1/v2/v3	
	NTP(Network Time Protocol)	
	NMS2000 network management	

Ordering Information

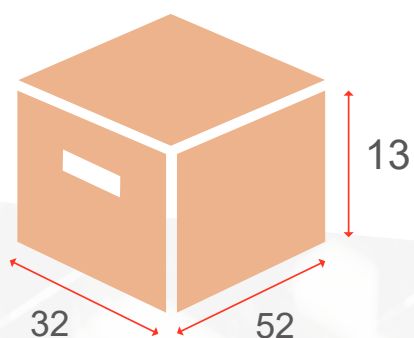| Product	Description	Power Configuration	SFP Accessories
BT-P6104H	4*EPON 4*RJ45+4*SFP+	1*AC Power 2*AC Power 1*AC Power + 1*DC Power	EPON SFP Module PX20+/PX20++/PX20+++ 1G SFP Module 10G SFP Module

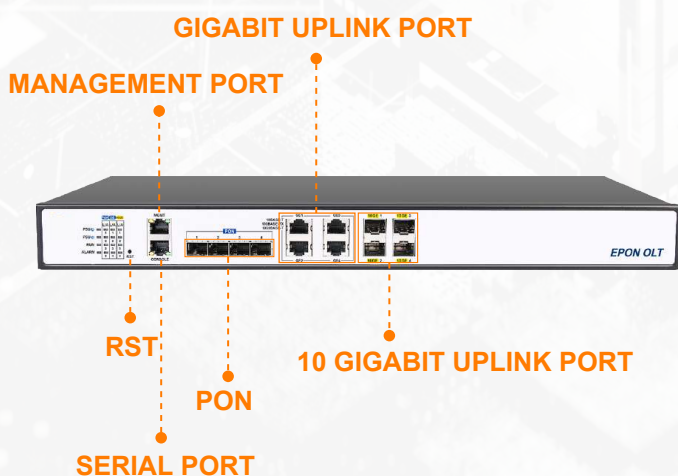## Product Packing Size

Package included:

- OLT * 1 PC
- Network cable * 1 PC
- Power cable * 1 PC
- Debug cable * 1 PC
- Handing Ears * 2 PCS

Packing list:

13
32
52

- 1PC/Box
  Measurement: 52*32*13cm, 3.5kg
- 5PCS/Carton
  Measurement: 67*54*33.5cm, 19kg

Interface

GIGABIT UPLINK PORT
MANAGEMENT PORT
RST
PON
SERIAL PORT
10 GIGABIT UPLINK PORT
EPON OLT

- **Compatible with ONU Huawei/ZTE/Fiberhome**

- PON
- GIGABIT UPLINK PORT
- 10 GIGABIT UPLINK PORT
- MANAGEMENT PORT
- SERIAL PORT
- RST