Product Overview

BT-P8108H OLT (Figure 1) is self-developed Compact 1U GPON OLT equipment, meeting the requirements of ITU-T G.984/G.988 and relative standards of China Telecom/Unicom GPON, possessing super GPON 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-P8108H can be used with NMS2000 network management system so as to provide users with the perfect solution.

BT-P8108H OLT provides 8 *Downsteam GPON ports, 4 * Uplink GE ETH ports, 2*Uplink GE SFP ports and 2* Uplink 10G SFP+ ports. Up to 1:128 Split ratio for up to 1024 GPON users. The 1U pizza box design is for easy installation, Maintenance and Space saving. BT-P8108H is suitable for Broadcast three in one, video surveillance network, enterprise LAN, Internet of Things, etc.

BT-P8108H

Product Specifications

Network interface	
GPON interface	8 x GPON (2.5/1.25 Gbps)
10GE Ethernet	2 x 10GE SFP+
1GE Ethernet	4 x RJ-45 + 2 x SFP+
PON interface	
GPON	ITU-TG.984.x standard
Local Management interface	
Console	RJ-45 EIA/TIA-232 Console management port
MGMT	1000BASE-T out-band management port
Performance	
Switching Capacity	82Gbps
Split ratio	1:128
Maximum ONU quantity	4096 GEM port-ids, 1024 T-CONT, 1024 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	<70 W
Environmental conditions	
Storage	temperature -10 to 70°C, rel. humidity 10–90% (non-condensing)
Operation	temperature 0 to 45°C, rel. humidity 10–90% (non-condensing)
Physical specifications	
Dimensions	440mm×362mm× 44mm(W * D *H)
Weight	4.95KG

Key Feature Support on BT-P8108H

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
	64K 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	
Routing	BGP	
	MPLS	
	RIP	

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	
Network security	IP address、VLAN ID、MAC address and port manual binding	
	Port broadcast /multi broadcast 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

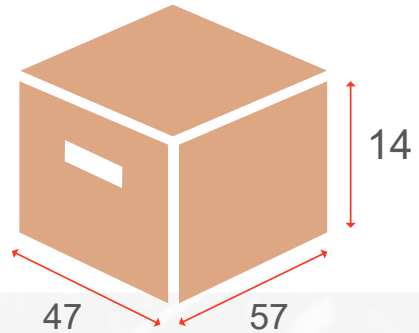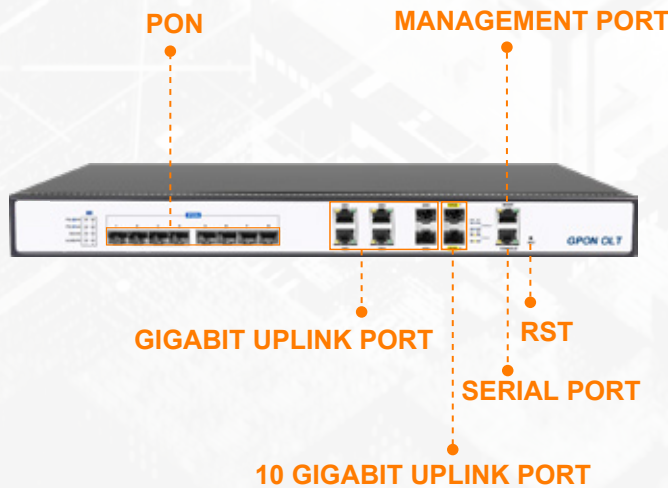| Product	Description	Power Configuration	SFP Accessories
BT-P8108H	8*GPON 4*RJ45+2*SFP+2*SFP+	1*AC Power 2*AC Power 1*AC Power + 1*DC Power	GPON SFP Module C+/C++/C+++ 1G SFP Module 10G SFP Module

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:

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47   57

- 1PC/Box
  Measurement: 57*47*14cm, 4.5kg

- 4PCS/Carton
  Measurement: 58*58*48.2cm, 28kg

Interface

PON   MANAGEMENT PORT

GPON OLT

GIGABIT UPLINK PORT   RST

SERIAL PORT

10 GIGABIT UPLINK PORT

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

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