Product Overview

BT-P8116H 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-P8116H can be used with NMS2000 network management system so as to provide users with the perfect solution.

BT-P8116H OLT provides 16 *Downsteam GPON ports, 4 * Uplink GE ETH ports and 4* Uplink 10G SFP+ ports. Up to 1:128 Split ratio for up to 2048 GPON users. The 1U pizzabox design is for easy installation, Maintenance and Space saving. BT-P8116H is suitable for Broadcast three in one, video surveillance network, enterprise LAN, Internet of Things, etc.

BT-P8116H

Product Specifications

Network interface	
GPON interface	16 x GPON (1.25/2.5 Gbps)
10GE Ethernet	4 x 10GE SFP+
1GE Ethernet	4 x RJ-45
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	148Gbps
Split ratio	1:128
Maximum ONU quantity	4096 GEM port-ids, 1024 T-CONT, 128 ONT
Power Supply and Consumption	
Power Adaptor	AC Input::100 to 240 V AC, 50/60 Hz; DC Input : 36V-75V(optional)
Redundancy Design	Pluggable double power supply, double AC, double DC and AC+DC
Consumption	＜84 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×400mm× 44mm(W * D *H)
Weight	＜ 6.5KG

Key Feature Support on BT-P8116H

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
	TACACS+ Authentication
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

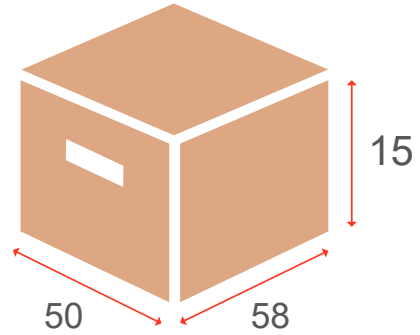| Product	Description	Power Configuration	SFP Accessories
BT-P8116H	16*GPON 4*RJ45+4*SFP+	1*AC Power 2*AC Power 1*AC Power + 1*DC Power	GPON SFP Module C+/C++/C+++ 1G SFP Module 10G SFP Module

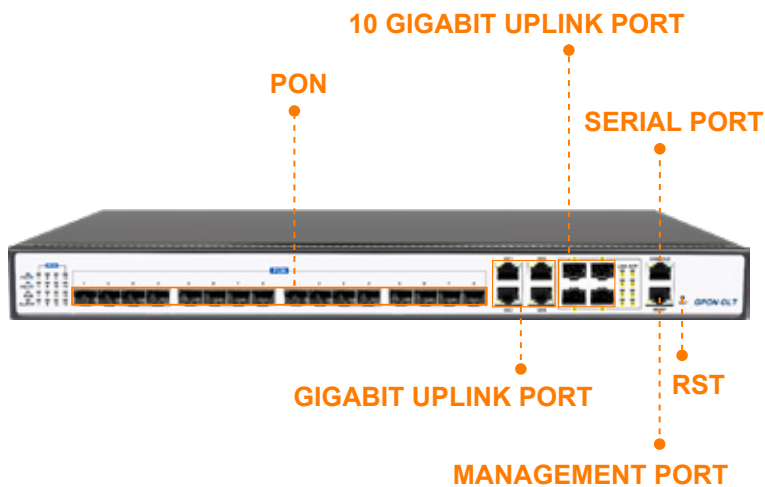## Product Packing Size

Package included:

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

Packing list:

15

50   58

- 1PC/Box
  Measurement: 58*50*15cm, 8kg
- 4PCS/Carton
  Measurement: 62*59*51.5cm, 33.8kg

Interface

10 GIGABIT UPLINK PORT

PON

SERIAL PORT

GIGABIT UPLINK PORT

RST

MANAGEMENT PORT

Compatible with ONU Huawei/ ZTE/Fiberhome

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