



BT-P8116H Datasheet



Product Overview

BT-P8116H is GPON OLT series product, 19-inch 1U height rack-mounted, featuring small size, convenience and flexibility, easy deployment, and high performance. Easy installation and maintenance, saving space.

BT-P8116H GPON OLT provides 16 standard EPON PON ports ; 4 uplink GE Ethernet RJ45 ports; 4*10GE SFP+ optical ports.Supports 1:128 split ratio,can access 2048 ONU users at the same time. Support different types of ONU hybrid networking, suitable for triple play,Video network, corporate LAN, and Internet of Things scenarios. Provide perfect, intelligent, powerful, advanced and professional solutions for FTTH/FTTB/FTTO projects.

Product Specifications

GPON interface	16 x GPON (1.25/2.5 Gbps)
10GE Ethernet	4 x 10GE SFP+
1GE Ethernet	4 x RJ-45
GPON	ITU-TG.984.x standard
Console	RJ-45 EIA/TIA-232 Console management port
MGMT	1000BASE-T out-band management port
Switching Capacity	148Gbps
Spaging ratio	1: 128
Maximum ONU quantity	4096 GEM port-ids, 1024 T-CONT, 128 ONT
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
Storage	temperature -10 to 70°C, rel. humidity 10–90% (non-condensing)
Operation	temperature 0 to 45°C, rel. humidity 10–90% (non-condensing)
Dimensions	440mm×400mm× 44mm(W * D *H)
Weight	< 6.5KG

Key Features

Ethernet switching (L2) features	
VLAN	Spanning tree
<ul style="list-style-type: none">• 4K VLAN entries• Port-based QinQ and Selective QinQ (StackVLAN)• Port-based/MAC-based/IP subnet-based VLA	<ul style="list-style-type: none">• IEEE 802.1x STP/RSTP/MSTP• ONU remote loop detection
MAC	Port
<ul style="list-style-type: none">• MAC Black Hole• Port MAC limit• 64K MAC address	<ul style="list-style-type: none">• Bi-direction bandwidth control• Port mirroring and traffic mirroring
Service features	
Multicast	Routing
<ul style="list-style-type: none">• IGMPv1/v2/v3• IGMP Snooping/Proxy• IGMP filtering	<ul style="list-style-type: none">• BGP• MPLS• RIP
QoS	
<ul style="list-style-type: none">• 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	
Security features	
User security	
<ul style="list-style-type: none">• 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 ACL flow 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

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