GPON OLT 16 PON PORTS 1U 19 inch HAAFH - 16*PON+4*GE COMO+2*10GE(SFP+)

1U 19 inch
1+1power redundancy
16* fixed GPON port
4*GE COMBO port
2*10GE SFP+ port
1*console port

Zion Code and Description

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7222116	GPON OLT 16 PON PORTS 1U 19 inch - HAAFH 16*PON+4*GE COMO+2*10GE(SFP+)

Applications

This model of 16 PON PORTS GPON OLT is a new product designed by Zion Communication,a small-capacity cassette GPON OLT, meeting the requirements of ITU-T G.984/G.988 and relative standards of China Telecom/Unicom GPON, with 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. GPON OLT 16PON can be used with network management system so as to provide users with the comprehensive access and perfect solution.
It provides 16 * downlink GPON port, 4 *GE combo port and 2* 10G SFP+ port for uplink. The height is only 1U for easy installation and space saving. GPON OLT 16PON is suitable for Broadcast three in one, video surveillance network, enterprise LAN, Internet of Things, etc.

Features

- PON ITU-TG.984.x standard
  Maximum 20 Km PON transmission distance
  access 128 terminals for single fiber PON
  Uplink and downlink triple churning encrypted function with 128Bits
  ONU terminal legitimacy certification, report illegal ONU registration
  DBA algorithm, the particle is 1Kbit/s
  Standard OMCI management function
  ONU batch software upgrade, fixed time upgrade, real time upgrade
  PON port optical power detection

- L2 Features MAC MAC Black Hole
  Port MAC Limit
  64K MAC (packet exchange chip cache 2MB, external cache 720 MB)

- L2 Features VLAN 4K VLAN entries
  Port-based/MAC-based/protocol/IP subnet-based
  QinQ and flexible QinQ (StackedVLAN)
  VLAN Swap and VLAN Remark
  PVLAN to realize port isolation and saving public-vlan resources
  GVRP

- L2 Features Spanning Tree STP/RSTP/MSTP
  Remote loop detecting

- L2 Features Port Bi-directional bandwidth control
  Static link aggregation and LACP(Link Aggregation Control Protocol)
  Port mirroring

- Security Features User's Security Anti-ARP-spoofing
  Anti-ARP-flooding
  IP Source Guard create IP+VLAN+MAC+Port binding
  Port Isolation
  MAC address binding to the port and MAC address filtering
  IEEE 802.1x and AAA/Radius authentication

- Security Features Device Security Anti-DOS attack(such as ARP, Synflood, Smurf, ICMP attack), ARP detection, worm and Msblaster worm attack
  SSHv2 Secure Shell
  SNMP v3 encrypted management
  Security IP login through Telnet
  Hierarchical management and password protection of users

- Security Features Network Security User-based MAC and ARP traffic examination
  Restrict ARP traffic of each user and force-out user with abnormal ARP traffic
  Dynamic ARP table-based binding
  IP+VLAN+MAC+Port binding
  L2 to L7 ACL flow filtration mechanism on the 80 bytes of the head of user-defined packet
  Port-based broadcast/multicast suppression and auto-shutdown risk port
  URPF to prevent IP address counterfeit and attack
  DHCP Option82 and PPPoE+ upload user's physical location Plaintext authentication of OSPF, RIPv2 and BGPv4 packets and MD5
  cryptograph authentication

- Service Features ACL Standard and extended ACL
  Time Range ACL
  Flow classification and flow definition based on source/destination MAC address, VLAN, 802.1p, ToS, DiffServ,source/destination IP(IPv4/IPv6) address, TCP/UDP port number, protocol type, etc
  packet filtration of L2～L7 deep to 80 bytes of IP packet head
- Service Features QoS Rate-limit to packet sending/receiving speed of port or self-defined flow and provide general flow monitor and two-speed tri-color monitor of self-defined flow
  Priority remark to port or self-defined flow and provide 802.1P, DSCP priority and Remark
  CAR(Committed Access Rate), Traffic Shaping and flow statistics
  Packet mirror and redirection of interface and self-defined flow
  Super queue scheduler based on port or self-defined flow. Each port/
  flow supports 8 priority queues and scheduler of SP, WRR and SP+WRR.
  Congestion avoid mechanism, including Tail-Drop and WRED
- Service Features IPv4 ARP Proxy
  DHCP Relay
  DHCP Server
  Static Routing
  RIPv1/v2
  OSPFv2
  ECMP
  PBR
- Service Features Multicast
  IGMPv1/v2/v3
  IGMPv1/v2/v3 Snooping
  IGMP Filter
  MVR and cross VLAN multicast copy
  IGMP Fast leave
  IGMP Proxy
  PIM-SM/PIM-DM/PIM-SSM
  MLDv2/MLDv2 Snooping
- Reliability Loop Protection ERRP or ERPS Loopback-detection
- Reliability Link Protection FlexLink (recover-time <50ms)
  RSTP/MSTP (recover-time <1s)
  LACP (recover-time <10ms)
  BFD
- Reliability Device Protection VRRP host backup 1+1 power hot backup
- Maintenance Network Maintenance Port real-time, utilization and transmit/receive statistic based on Telnet
  RFC3176 sFlow analysis
  LLDP
  GPON OMCI
  RFC 3164 BSD syslog Protocol
  Ping and Traceroute
- Maintenance Device Management
  CLI, Console port, Telnet and WEB
  SNMPv1/v2/v3
  RMON (Remote Monitoring)1,2,3,9 groups MIB
  NTP
  network management

Detailed product specifications

1.Parameters

PON standard.	GPON ITU-T G.984.x
Service Port	16*PON, 4*GE COMBO, 2*10GE SFP+, double AC/DC power supply
Redundancy Design	Dual power supply Support AC input, double DC input and AC+DC input
Power Supply	AC: input 90～264V 47/63Hz; DC: input -36V～-72V;
Power Consumption	≤110W
Dimensions (Width x Height x Depth)	440mm×44mm×410mm
Weight (Full-Loaded)	≤7.5kg
Environmental Requirements	Working temperature: -10°C～55°C Storage temperature: -40C～70C Relative humidity: 10%～90%, non-condensing

2.Shipping packaging

Data of packaging	1pcs /ctn,7kg/ctn,575*500*115mm 5pcs /ctn,35kg/ctn,645*597*525mm

3.Detail Panel