

HA7316G Rack Type 16PON GPON OLT



Overview

This GPON OLT HA7316G provides 16 downstream GPON ports, 4 uplink GE Combo ports, 2 10GE SFP+ ports, The 1U height can be easy installed and maintained to save space. It adopts the industrial advanced technology, with powerful Ethernet services and QoS feature, supporting SLA and DBA. The splitting ratio up to 1:128, supporting different types of ONU in different networks, minimizing operators' investments.

Feature

- Support ITU-TG 984x standard
- Supply 16 SFP GPON ports, 4 Combo uplink ports, 2 10G SFP+ uplink ports
- Each PON port support maximum splitting ratio 1:128
- Distance can reach 20km
- Support to work with HA411 series GPON ONTs to establish passive network
- 1U rack design, inside fan, better for heat dissipating and reliability operating
- Apply for town, village fiber network and surveillance, apply for FTTX network, to transmit IP phone, data, IPTV and other IP services access

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Technical Specification

Parameter	Specification
Switching Capacity	140Gbps
Forwarding Capacity(Ipv4/Ipv6)	104MPPS
Service Port	16*PON SFP ports 4*GE COMBO port, 2*10GE SFP+ port
Redundancy Design	Single power supply or dual power supply Support AC input, or DC input
Power Supply	AC: input 90~264V 47/63Hz; DC: input -36V~-72V;
Power Consumption	≤110W
Dimensions	440mm×44mm×380mm
Weight (Full-Loaded)	≤3kg
Environmental Requirements	Working temperature: -10°C~55°C Storage temperature: -40°C~70°C Relative humidity: 10%~90%, non-condensing

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Product Features

Parameter		Specification
		ITU-TG.984.x standard
		Maximum 20 Km PON transmission distance
		access 128 terminals for single fiber PON
PON Features	3	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
		MAC Black Hole
	MAC	Port MAC Limit
		64K MAC (packet exchange chip cache 2MB, external cache 720 MB)
		4K VLAN entries
		Port-based/MAC-based/protocol/IP subnet-based
	VLAN	QinQ and flexible QinQ (StackedVLAN)
L2 Features	VLAN	VLAN Swap and VLAN Remark
LZ Features		PVLAN to realize port isolation and saving public-vlan resources
		GVRP
	STP	STP/RSTP/MSTP
		Remote loop detecting
	Port	Bi-directional bandwidth control
		Static link aggregation and LACP(Link Aggregation Control Protocol)
		Port mirroring
	User's Security	Anti-ARP-spoofing
		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
	Device Security	Anti-DOS attack(such as ARP, Synflood, Smurf, ICMP attack), ARP
Security		detection, worm and Msblaster worm attack
Features		SSHv2 Secure Shell
		SNMP v3 encrypted management
		Security IP login through Telnet
		Hierarchical management and password protection of users
		User-based MAC and ARP traffic examination
	Network	Restrict ARP traffic of each user and force-out user with abnormal ARP
	Security	traffic
		Dynamic ARP table-based binding

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		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
		Standard and extended ACL
		Time Range ACL
		Flow classification and flow definition based on source/destination MAC
	ACL	address, VLAN, 802.1p, ToS, DiffServ, source/destination IP(IPv4/IPv6)
		address, TCP/UDP port number, protocol type, etc
		packet filtration of L2 \sim L7 deep to 80 bytes of IP packet head
		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
	QoS	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/
Service		flow supports 8 priority queues and scheduler of SP, WRR and
Features		SP+WRR.
		Congestion avoid mechanism, including Tail-Drop and WRED
		ARP Proxy, DHCP Relay, DHCP Server
	IPv4	Static Routing, RIPv1/v2, OSPFv2, BGPv4
		Equivalent Routing, Routing Strategy
		ICMPv6, ICMPv6 Redirection, DHCPv6
		ACLv6, OSPFv3, RIPng
	IPv6	BGP4+, Configured Tunnels
		ISATAP, 6to4 Tunnels
		Dual stack of IPv6 and IPv4
	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
		PIM-SMv6, PIM-DMv6, PIM-SSMv6
		MLDv2/MLDv2 Snooping
	Loop	EAPS and GERP (recover-time <50ms)
Reliability	Protection	Loopback-detection
. tondonity	Link	FlexLink (recover-time <50ms)
	Link	I TONETTI (TOUGVOT-UITTO NOUTTO)

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	Protection	RSTP/MSTP (recover-time <1s)	
		LACP (recover-time <10ms)	
		BFD	
	Device	VRRP host backup	
	Protection	1+1 power hot backup	
Maintenance ·		Port real-time, utilization and transmit/receive statistic based on Telnet	
	Network Maintenance	RFC3176 sFlow analysis	
		LLDP, GPON OMCI	
		RFC 3164 BSD syslog Protocol	
		Ping and Traceroute	
	Device Management	CLI, Console port, Telnet and WEB	
		SNMPv1/v2/v3	
		RMON (Remote Monitoring)1,2,3,9 groups MIB	
		NTP	
		NGBNView network management	

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