GPON OLT 16PON

Product Overview:

GPON OLT 16PON is 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.

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

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Product Specification:

Item	GPON OLT 16PON
Service Port	16*PON port, 4*GE COMBO port, 2*10GE SFP+ port
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: -40°C～70°C Relative humidity: 10%～90%, non-condensing

Product Features:

Item		GPON OLT 16PON
PON Features		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)
	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
	Spanning Tree	STP/RSTP/MSTP Remote loop detecting
	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
	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
	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
	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
	IPv4	ARP Proxy
		DHCP Relay
		DHCP Server
		Static Routing
		RIPv1/v2

		OSPFv2
		ECMP
		PBR
	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
	Link Protection	FlexLink (recover-time <50ms)
		RSTP/MSTP (recover-time <1s)
		LACP (recover-time <10ms)
		BFD
	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
	Device Management	CLI, Console port, Telnet and WEB
		SNMPv1/v2/v3
		RMON (Remote Monitoring)1,2,3,9 groups MIB
		NTP
		network management

Purchase Information:

Product name	Product description
GPON OLT 16PON	16*PON, 4*GE COMBO, 2*10GE SFP+, double AC/DC power supply
AC Power Supply	AC power module for GPON OLT 16PON
DC Power Supply	DC power module for GPON OLT 16PON