

WGP5000-16P OLT



WGP5000-16P small capacity enhanced box GPON OLT equipment has strong GPON access capability and carrier-class reliability, fully meeting ITU-TG.984/G.988 standard and China's communications industry GPON related standards, supporting comprehensive security functions (such as ACLs, anti-DoS attacks, etc.) and flexible QinQ service capabilities. It is widely used in the construction of access network for operators' front-end network coverage, private network construction, and enterprise network campus access.

Product Specification:

Item	Parameter
Switching Capacity	140Gbps
Forwarding Capacity(Ipv4/Ipv6)	104MPPS
Service Port	16*PON port, 4*GE SFP, 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 Depth x Height)	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

Product Features:

Item	Feature
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



TECHNICAL SPECIFICATIONS



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



TECHNICAL SPECIFICATIONS



		BGPv4 Equivalent Routing Routing Strategy
	IPv6	ICMPv6 ICMPv6 Redirection DHCPv6 ACLv6 OSPFv3 RIPng 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
Reliability	Loop Protection	EAPS and GERP (recover-time <50ms) 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 Time Protocol) Network Management System