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OLT-G8 Cassette OLT

Data Sheet

OLT-G8 Cassette OLT provides 8 downstream GPON ports, 8 uplink GE optical port and 8

GE electrical ports, with an expansion slot, which can access 2 10GE SFP+ ports. The 1U

height can be easy installed and maintained to save space. The GL5600-08P 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.

Product Specification:

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| Attributes | OLT-G8 |
| Switching capacity | 102Gbps |
| Throughput | 75.88MPPS |
| (IPv4/IPv6) |
| Ports | 8\*PON port，8\*GE FX+8\*GE TX，2\*10GE SFP+ |
| Power redundancy | Dual power supply. Can be double AC, double DC or AC+DC |
| Power supply | AC：Input 100～240V，47～63Hz； |
| DC：Input -36V～-75V； |
| Power consumption | ≤85W |
| Outline dimensions | 440mm×44mm×380mm |
| (mm) (W\*D\*H) |
| Weight (in maximum | ≤3kg |
| configuration) |
| Environmental | Working temperature：-15C～55C |
| Storage temperature：-40C～70C |
| requirements |
| Relative humidity：10%～90%，no condensing |

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Business Features:

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| Attributes | | OLT-G8 | | | | |
| PON | GPON | Satisfy ITU -T | | standard | | |
| TR-101 compliant solution for FTTx OLT applications | | | | |
| High splitter rate, | | | each PON | port supports 32\*ONU ,96\*T-CONT |
| Maximum transmission distance of 20KM | | | | |
| Support uplink FEC, downlink FEC(Forward Error Correction) | | | | |
| ONU | identifier authentication | | | :SN /SN+PASSWD |
| Features | Bandwidth allocation mechanism | | | | |
| 5 types of T-CONT bandwidth | | | | |
| Static Bandwidth Allocation | | | | |
| Dynamic Bandwidth Allocation | | | | |
| GPON feature parameter | | | | |
| 4096 port-IDs per GPON MAC (Downstream and Upstream) | | | | |
| 1024 Alloc -IDs per GPON MAC (Upstream ) | | | | |
| L2 Features | MAC | MAC Black Hole | | | | |
| Port MAC Limit | | | | |
| VLAN | 4K VLAN entries | | | | |
| Port-based/MAC-based/IP subnet-based VLAN | | | | |
| Port-based QinQ and Selective QinQ (StackVLAN) | | | | |
| VLAN Swap and VLAN Remark and VLAN Translate | | | | |
| GVRP | | | | |
| Based on ONU service flow VLAN add, delete, replace | | | | |
| Spannin | IEEE 802.1D Spanning Tree Protocol (STP) | | | | |
| g tree | IEEE 802.1w Rapid Spanning Tree Protocol (RSTP) | | | | |
| protocol | IEEE 802.1s Multiple Spanning Tree Protocol instances (MSTP) | | | | |
| Port | Bi-directional bandwidth control | | | | |
| Static link aggregation and LACP(Link Aggregation Control Protocol) | | | | |
| Port mirroring and traffic mirroring | | | | |
| Security | User | Anti-ARP-spoofing | | | | |
| Anti-ARP-flooding | | | | |
| IP Source Guard create IP+VLAN+MAC+Port binding | | | | |
| Port Isolation | | | | |
| MAC address binds to port and port MAC address filtration | | | | |
| Features | security |
| IEEE 802.1x and AAA/Radius authentication | | | | |
| TACACS+ authentification | | | | |
| dhcp anti-attack flood attack automatic suppression | | | | |
| ONU isolation control | | | | |

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|  | Device | Anti-DOS attack(such as ARP，Synflood, Smurf, ICMP attack), ARP detection, |
| worm and Msblaster worm attack |
| SSHv2 Secure Shell |
| security | SNMP v3 encrypted management |
| Security IP login through Telnet |
| Hierarchical management and password protection of users |
| Network | 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 |
| Supports IP+VLAN+MAC+Port binding |
| L2 to L7 ACL flow filtration mechanism on the 80 bytes of the head of |
| user-defined packet |
| security |
| 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 MD5 cryptograph authentication |
| IP Routing | IPv4 | ARP Proxy |
| DHCP Relay |
| DHCP Server |
| Static route |
| IPv6 | ICMPv6 |
| ICMPv6 redirection |
| DHCPv6 |
| ACLv6 |
| Configured Tunnel |
| 6to4 tunnel |
| IPv6 and IPv4 Tunnels |
| Service | ACL | Standard and extended ACL |
| Time Range ACL |
| Packet filter providing filtering based on source/destination MAC address, |
| source/destination IP address, port, protocol, VLAN, VLAN range, MAC |
| address range, or invalid frame. System supports concurrent identification at |
| most 50 service traffic |
| Support packet filtration of L2～L7 even 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 |
| Features |
| 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 and 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 |

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|  | Multicas | IGMPv1/v2/v3 |
| IGMPv1/v2/v3 Snooping |
| IGMP Filter |
| MVR and cross VLAN multicast copy |
| t | IGMP Fast leave |
| IGMP Proxy |
| PIM-SM/PIM-DM/PIM-SSM |
| PIM-SMv6、PIM-DMv6、PIM-SSMv6 |
| MLDv2/MLDv2 Snooping |
| MPLS | NPLS LDP |
| Reliability | Loop | EAPS and GERP (recover-time <50ms) |
| protecti | Loopback-detection |
| on |
| Link | FlexLink (recover-time <50ms) |
| RSTP/MSTP (recover-time <1s) |
| protecti |
| LACP (recover-time <10ms) |
| on |
| BFD |
| Device | VRRP host backup |
| protecti | Double fault-tolerant backup of host program and configuration files |
| on | 1+1 power hot backup |
| Maintenance | Network | Telnet-based statistics |
| RFC3176 sFlow |
| LLDP |
| mainten |
| 802.3ah Ethernet OAM |
| ance |
| RFC 3164 BSD syslog Protocol |
| Ping and Traceroute |
| Device | Command-line interface（CLI）, Console, Telnet and WEB configuration |
| System configuration with SNMPv1/v2/v3 |
| manage |
| RMON (Remote Monitoring)1/2/3/9 groups of MIB |
| ment |
| NTP(Network Time Protocol) |

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