

 OLT-E8 Cassette OLT

 Data Sheet

 OLT-E8 is designed for chassis OLT device which provides 8 downlink 1000M PON ports,

 8 uplink GE Combo ports by GOM. The height is only 1U for easy installation and space

 saving. Each PON supports up to 64 terminals, the whole device supports up to 256/512

 ONU under full configuration. OLT-E8 adopts advanced technology to support SLA and

 DBA to keep strong function on the Ethernet and QoS features. OLT-E8 is applied for

 commercial and grid network digital management to provide perfect, smart, strong,

 advanced, professional solutions for “automatic distribution” and “electricity information

 collection” in the implemented project for the national grid.

 Product Features：

 Carrier-class stability and network resiliency

  Adopt large-scale NGBN operation system with intellectual property rights in the

 global carrier network

  Support PON fiber redundancy protection and device redundancy protection protocol

  Support rich security features to protect the users, devices and network.

  Dual power supply input and power redundancy

  All PON and GE ports provide L2/L3 full-line speed without losing packets

 Full PON service

  Each PON support 1:64 splitting ratio ( The maximum quantity of 64 ONU)

  Hot plug PON fibber module design, the farthest 20Km transmission distance

  Support 128bits triple churning function to ensure the confidential for the data

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 transmission

  Support dynamic bandwidth distribution DBA algorithm

 Powerful OAM

  Use packet forwarding based on hardware to be effective for feature detection and

 packet filtering

  Support auto protection and user blocking for ARP attack based on MAC address

  Support all kinds of protecting DDoS, CPU over-current and VRRP etc

  Support BFD, FlexLink, auto linkage aggregation and Ethernet Ring protection

 Product Specification:

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| **Item** | **OLT-E4/E8** |
| Switching capacity | 32Gbps |
| Throughput(IPv4/IPv6) | 9.5Mpps |
| Service port | 8\*PON，8\*GE Combo |
| Redundancy design | Dual power supply, support AC input、dual DC input and AC+DC input |
| Power supply | AC：90～260V，47～63Hz ； |
| DC：-36V～-72V； |
| Power consumption | ≤46W |
| Outline dimensions | 442mm×44mm×315mm |
| (mm) (W\*D\*H) |
| Weight (in maximum | ≤3kg |
| configuration) |
| Environmental | Working temperature：0C～40C |
| Storage temperature：-40C～70C |
| parameter |
| Relative humidity：10%～90%，no condensing |
| **Business Features:** |
| **Item** | **OLT-E4/E8** |
| PON features | IEEE 802.3ah EPON |
| China telecom/Unicom | GEPON standard |
| 20Km for single fibber |
| Access 64 terminals for single fibber PON |
| Uplink and downlink triple churning encrypted function |
| ONU terminal legitimacy certification, report illegal ONU registration |

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|  | DBA algorithm |
| Standard OAM and extended OAM |
| ONU batch software upgrade, fixed time upgrade, real time upgrade |
| PON transmit and inspect receiving optical power |
| L2 features | MAC | MAC Black Hole |
| Port MAC Limit |
| 8K MAC address |
| 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 |
| Spanning | IEEE 802.1D Spanning Tree Protocol (STP) |
| IEEE 802.1w Rapid Spanning Tree Protocol (RSTP) |
| tree protocol | IEEE 802.1s Multiple Spanning Tree Protocol instances (MSTP) |
| ONU remote loop detecting alarm |
| 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 |
| security | Port Isolation |
| MAC address binds to port and port MAC address filtration |
| IEEE 802.1x and AAA/Radius authentication |
| 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 |
| features |
| 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 BGPv4 packets and MD5 |
| cryptograph authentication |
| Service | ACL | Standard and extended ACL |
| Time Range ACL |
| features |
| Packet filter providing filtering based on source/destination MAC |

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|  |  | 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 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 |
| IPv6 | SA/DA Classification |
| MLD Snooping |
| 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 | EAPS and GERP (recover-time <50ms) |
| protection | Loopback-detection |
| Link | FlexLink (recover-time <50ms) |
| RSTP/MSTP (recover-time <1s) |
| protection | LACP (recover-time <10ms) |
| BFD |
| Device | VRRP host backup |
| Double fault-tolerant backup of host program and configuration files |
| protection | PON card/fan hot-swappable |
| 1+1 power hot backup |
| Maintenance | Network | Telnet-based statistics |
| RFC3176 sFlow |
| LLDP |
| maintenance | 802.3ah Ethernet OAM |
| RFC 3164 BSD syslog Protocol |
| Ping and Traceroute |

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|  | Device | Command-line interface（CLI）, Console, Telnet and WEB configuration |
| System configuration with SNMPv1/v2/v3 |
| RMON (Remote Monitoring)1/2/3/9 groups of MIB |
| management | NTP(Network Time Protocol) |
| GN.LinkⅡ Server |
| NGBNView network management |

 Purchase Information:

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| **Product name** | **Product description** |
| OLT-E4/E8 | Cassette OLT (8 downlink 1000M PON ports, 8 uplink GE Combo ports) |

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