

DT5600-08 GPON OLT

DT5600-08 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:

Attributes	DT5600-08
Switching capacity	102Gbps
Throughput (IPv4/IPv6)	75.88MPPS
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 (mm) (W*D*H)	440mm×44mm×380mm
Weight (in maximum configuration)	≤3kg
Environmental requirements	Working temperature: -15°C~55°C Storage temperature: -40°C~70°C Relative humidity: 10%~90%, no condensing

Features:

Attributes		DT5600-08 series
PON features	GPON	<ul style="list-style-type: none"> ● Satisfy ITU -T standard ● TR-101 compliant solution for FTTx OLT applications ● High splitter rate, each PON port supports up to128*ONU (each onu supports ● 3* T-CONT), 384*T-CONT ● Maximum transmission distance of 20KM ● Support uplink FEC, downlink FEC(Forward Error Correction) ● ONU identifier authentication:SN /SN+PASSWD ● 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	<ul style="list-style-type: none"> ● MAC Black Hole ● Port MAC Limit
	VLAN	<ul style="list-style-type: none"> ● 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 tree protocol	<ul style="list-style-type: none"> ● IEEE 802.1D Spanning Tree Protocol (STP) ● IEEE 802.1w Rapid Spanning Tree Protocol (RSTP) ● IEEE 802.1s Multiple Spanning Tree Protocol instances (MSTP)
	Port	<ul style="list-style-type: none"> ● Bi-directional bandwidth control ● Static link aggregation and LACP(Link Aggregation Control Protocol) ● Port mirroring and traffic mirroring
	User security	<ul style="list-style-type: none"> ● 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

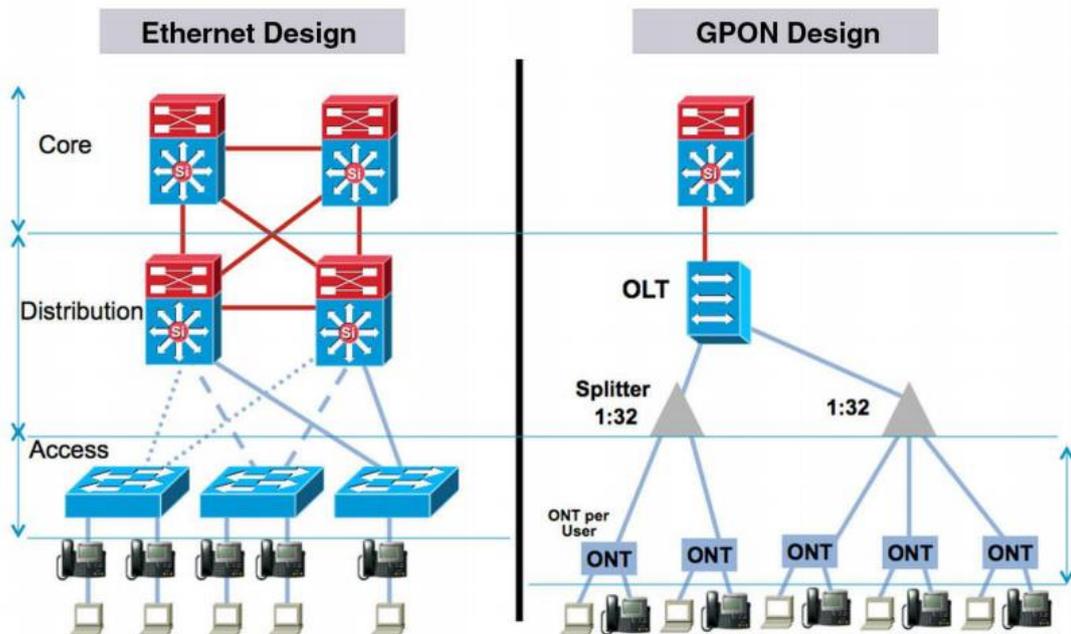
		<ul style="list-style-type: none"> ● IEEE 802.1x and AAA/Radius authentication ● TACACS+ authentication ● dhcp anti-attack flood attack automatic suppression
	Device security	<ul style="list-style-type: none"> ● Anti-DOS attack(such as ARP, Synflood, Smurf, ICMP attack), ARP detection, worm and Msblaster worm attack ● SSHv2 Secure Shell ● SNMP v3 encrypted management ● Security IP login through Telnet ● Hierarchical management and password protection of users
	Network security	<ul style="list-style-type: none"> ● 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 ● 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	<ul style="list-style-type: none"> ● ARP Proxy ● DHCP Relay ● DHCP Server ● Static route
	IPv6	<ul style="list-style-type: none"> ● ICMPv6 ● ICMPv6 redirection ● DHCPv6 ● ACLv6 ● Configured Tunnel ● 6to4 tunnel ● IPv6 and IPv4 Tunnels
Service features	ACL	<ul style="list-style-type: none"> ● 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

		<p>range, MAC address range, or invalid frame. System supports concurrent identification at most 50 service traffic</p> <ul style="list-style-type: none"> ● Support packet filtration of L2~L7 even deep to 80 bytes of IP packet head
	QoS	<ul style="list-style-type: none"> ● 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
	Multicast	<ul style="list-style-type: none"> ● 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	<ul style="list-style-type: none"> ● EAPS and GERP (recover-time <50ms) ● Loopback-detection
	Link protection	<ul style="list-style-type: none"> ● FlexLink (recover-time <50ms) ● RSTP/MSTP (recover-time <1s) ● LACP (recover-time <10ms) ● BFD
	Device protection	<ul style="list-style-type: none"> ● VRRP host backup ● Double fault-tolerant backup of host program and configuration files ● 1+1 power hot backup
Maintenance	Network maintenance	<ul style="list-style-type: none"> ● Telnet-based statistics ● RFC3176 sFlow ● LLDP ● 802.3ah Ethernet OAM ● RFC 3164 BSD syslog Protocol

		<ul style="list-style-type: none"> ● Ping and Traceroute
	Device management	<ul style="list-style-type: none"> ● 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 ● NTP(Network Time Protocol)

Application

Replace Ethernet design



GPON in the campus replaces this three-tier architecture with a two-tier fiber optic network by eliminating active access and distribution Ethernet switches with passive optical devices.