DigiSAT GPON & GEPON OLT (FFTO - FFTH - FFTB) SWITCH

Product Specification

Item	4PON	8PON	16PON
Switching Capacity	128Gbps		
Forwarding Capacity(Ipv4/Ipv6)	95.23Mpps		
Service Port	4*PON port, 4*10GE/GE SFP+8GE	8*PON port, 4*10GE/GE SFP +8GE	16*PON, 4*GE SFP, 4*GE COMBO port, 2*10GE/GE SFP
Redundancy Design	Built-in double power supply, including AC, double DC, AC+DC, single AC, single DC distinguished via model		Pluggable double power supply, double AC, double DC and AC+DC
Power Supply	AC: input100~240V 47/63Hz DC: input36V~75V		
Power Consumption	≤40W	≤45W	≤85W
Dimensions (Width x Depth x Height)	440mm×44mm×311mm		442mm×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		

Item	GPON / GEPON OLT 4/8/16PON	
PON Features	IEEE 802.3ah EPON - Maximum 20 Km PON transmission distance Each PON port supports the max. 1:64 or 1:128 splitting ratio Uplink and downlink triple churning encrypted function with 128Bits Standard OAM and extended OAM ONU batch software upgrade, fixed time upgrade, real time upgrade	
L2 Features	MAC	MAC Black Hole - Port MAC Limit - 16K MAC address
	VLAN	4K VLAN entries - VLAN Swap and VLAN Remark Port-based/MAC-based/protocol/IP subnet-based QinQ and flexible QinQ (StackedVLAN) PVLAN to realize port isolation and saving public-vlan resources GVRP
	Spanning	STP/RSTP/MSTP - Remote loop detecting
	Port	Bi-directional bandwidth control Static link and LACP (Link Aggregation Control Protocol) – Port mirroning
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 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 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 Auth. of OSPF, RIPv2 and BGPv4 packets and MD5 cryptograph auth.

IP Routing	IPv4	ARP Proxy - DHCP Relay - DHCP Server Static Routing - RIPv1/v2 – OSPFv2 – BGPv4 Equivalent Routing - Routing Strategy
	IPv6	ICMPv6 - ICMPv6 Redirection – DHCPv6 – ACLv6 OSPFv3 – RIPng - BGP4+ - Configured Tunnels ISATAP-6to4 Tunnels - Dual stack IPv6 and IPv4
Service Features	ACL	Standard and extended ACL - Time Range ACL Flow classification and flow definition based on source/destination MAC - Flow classification and flow definition based on source/destination – MAC 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
Reliability	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
	Loop Protection	EAPS and GERP (recover-time <50ms) Loopback-detection
	Link Protection	FlexLink (recover-time <50ms) 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 - 802.3ah Ethernet OAM RFC 3164 BSD
	Device Management	RMON (Remote Monitoring)1, 2, 3, 9 groups MIB NTP NGBNView network management