GL5610-08F GPON OLT

GL5610-08F is an outdoor OLT switching equipment, providing 8* GPON OLT interface, 2* SFP Gigabit interface, 2* SPF + 10G interface and 1* GE in-band management. GL5610-08F adopts advanced technology, having a powerful function and QoS guarantee on the Ethernet business. It supports SLA and DBA, with the maximum 1: 128 splitting ratio. In addition, it supports a hybrid network of different types of ONUs, making the operator's investment to be minimized.

GL5610-08F is suitable for FTTH access of operators' network, video surveillance network, enterprise LAN, Internet of Things and other network applications, with high performance-price ratio.

Product Specification:

Item	GL5610-08F
Switching Capacity	88Gbps
Forwarding Capacity	65.5Mpps
Service Port	8*PON interface,　2*SFP interface, 2*SFP+ interface, 1*GE interface
Power Supply	AC: input 90～264V　47/63Hz；
Power Consumption	≤78W
Dimensions (Width x Depth x Height)	385X307X180
Weight (Full-Loaded)	≤10kg

Environmental Requirements	Working temperature:-20°C～70°C
	Storage temperature: -40°C～85°C
	Relative humidity: 10%～90%, non-condensing

Service Features:

Item		GL5610-08P/16P
PON Features		ITU-T G.984.x
		Up to 20 Km PON transmission distance
		Passive access to 128 terminals on a single fiber
		Uplink and downlink triple churning encrypted function with 128Bits
		ONU terminal legitimacy certification, illegal ONU registration event reported
		DBA, with granularity 1K bit / s
		Standard OMCI management functions
		ONU batch software upgrade, fixed time upgrade, real-time upgrade
		PON port optical power detection
L2 Features	MAC	MAC Black Hole
		Port MAC Limit
		64K MAC , with 2MB cache exchange chip and 720MB external cache
	VLAN	4K VLAN entries
		Port-based/MAC-based/protocol/IP subnet-based
		QinQ and flexible QinQ (Stacked VLAN)
		VLAN Swap and VLAN Remark
		Support PVLAN to realize port isolation and save 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
		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	ARP traffic detection based on MAC address per user
		ARP packet suppression based on ARP traffic detection or block users
		one-click binding based on dynamic ARP tables
		IP+VLAN+MAC+Port binding
		L2 to L7 ACL flow filtration mechanism on the 80 bytes of the head of user-defined packet
		Supports port broadcast / multicast suppression and dangerous port auto-shutdown
		URPF
		DHCP Option82
		PPPoE+
		Support plain text and MD5 cipher text authentication for OSPF, RIPv2 and BGPv4 packets
Service Features	ACL	Standard and extended ACL
		Time Range ACL
		Support 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
		Support L2 ~ L7 deep IP packet header 80 bytes of packet filtering
	QoS	Support rate-limit for packet sending/receiving speed of port or self-defined flow, providing general flow monitor and two-speed tri-color monitor of self-defined flow
		CAR(Committed Access Rate), Traffic Shaping and flow statistics
		Support message mirroring and message redirection for ports or custom flows
		Support priority marking for ports or custom flows and provides Remark capabilities for 802.1P, DSCP priority
		Support advanced queue scheduling based on port or custom flow. Each port / stream supports 4 priority queues, providing WRR, SP and FIFO queue scheduling algorithms
		Support congestion avoidance mechanism, including Tail-Drop, WRED and other functions
	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+
		manual tunneling
		ISATAP
		6to4
		IPv6
		IPv4 dual-stack
	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
Maintenance	Network Maintenance	TGLnet-based port real-time traffic, utilization and payload statistics
		RFC3176 sFlow LLDP
		GPON OMCI
		RFC 3164 BSD syslog Protocol
		Ping
		Trace route
	Device Management	CLI, Console interface, Telnet
		SNMPv1/v2/v3
		RMON (Remote Monitoring)
		NTP
		NGBNView