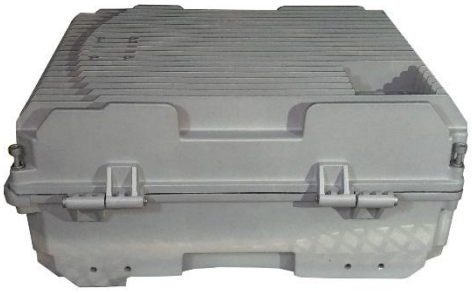
EL5610-04F EPON OLT

Product Overview：

EL5610-04F is a field-OLT switching equipment, providing 4* EPON OLT interface, 4* 10000Base-SR / LR / ER interface, 1* GE inband. EL5610-04F OLT adopts industry-leading technology and it supports SLA and DBA. Up to 1:64 split ratio, EL5610-04F supports different types of ONU hybrid network, minimize the operator's investment.

For its cost-effective, EL5610-04F can be able to apply to operator's network FTTH access, video surveillance network, enterprise LAN, web of things and other network applications.



Product Specification:

Item	EL5610-04F
Switching Capacity	108Gbps
Forwarding Capacity(Ipv4/Ipv6)	80Mpps
Service Port	4*PON port， 4*10000Base-SR/LR/ER interface，1*1000GE interface
Redundancy Design	single power supply, dual power supply, dual AC input, dual DC input and AC + DC input
Power Supply	AC: input 100～264V 47/63Hz； DC: input -36V～-72V；
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%，no condensation

Service Features:

Item		EL5610-04F
PON Features		IEEE 802.3ah EPON China Telecom/Unicom EPON Maximum 20 Km PON transmission distance Each PON port supports the max. 1:64 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 PON transmit and inspect receiving optical power PON port optical power detection
L2 Features	MAC	MAC Black Hole Port MAC Limit 16K MAC address
	VLAN	4K VLAN entries Port-based/MAC-based/protocol/IP subnet-based QinQ and flexible QinQ (StackedVLAN) VLAN Swap and VLAN Remark PVLAN to realize port isolation and saving 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 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 traffic 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 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 BGPv4 packets and MD5 cryptograph authentication
Service Features	ACL	Standard and extended ACL Time Range ACL 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 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
	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 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 host backup 1+1 power hot backup

Maintenance	Network Maintenance	Port real-time, utilization and transmit/receive statistic based on TGLnet RFC3176 sFlow analysis LLDP 802.3ah Ethernet OAM RFC 3164 BSD syslog Protocol Ping and Traceroute
	Device Management	CLI, Console port, TGLnet and WEB SNMPv1/v2/v3 RMON (Remote Monitoring)1,2,3,9 groups MIB NTP GN.Link Ⅱ Server NGBNView