GL-6228GE-SFP Fiber Switch

Specification:

L3 managed 10G Ethernet core routing switch with 24*1/10G SFP+ fiber ports, 4*10G/100G SFP fiber ports, 1*RS232 Console port, 1*10/100/1000M RJ45 management port(Data) and 1*USB 2.0 configuration port

◆ Introduction: -

GL-6228GE-SFP is a high-performance 10G L3 managed aggregation switch. which is oriented to the next-generation metropolitan area networks, data centers, campus networks, and enterprise networks. It has 24*1/10G SFP+ fiber ports, 4*10G/100G SFP fiber ports, 1*RS232 Console port, 1*10/100/1000M RJ45 management port(Data) and 1*USB 2.0 configuration port

◆ Characteristic: -

- **Advanced hardware architecture, powerful processing capabilities**

- Standard data center switching between front-back mode and back -front mode deign and fan automatic speed regulation.
- Adopting advanced hardware architecture design, it supports 24*1/10G SFP+ ports and 4*40G/100G (QSFP28) fiber ports.
- Equipped with ASIC switching chip and multi-core processor, with switching capacity of 1.28Tbps, meeting the high performance, high capacity, high density, and scalability requirements of the data center.

- **Powerful data services**

- Support ISSU (In-Service Software Upgrade) to ensure uninterrupted forwarding of user data during system upgrade and master switch.
- The ultra-high-precision BFD bidirectional link detection mechanism realizes millisecond-level fault detection and business recovery through linkage with L2/L3 protocols, greatly improving the reliability of the network system.
- Supports STP/RSTP/MSTP protocols, and VRRP protocols, and supports ring network protection, dual uplink primary and secondary link protection, LACP link aggregation, and other simple and efficient redundant protection mechanisms.

- **Rich business features**

- Support IPv6 protocol family, IPv6 neighbor discovery, ICMPv6, Path MTU discovery, DHCPv6 and other IPv6 features.
- IPv6-based Ping, Traceroute, Telnet, SSH, ACL, etc., to meet the needs of pure IPv6 network equipment management and business control.
- L2 and L3 MPLS VPN can form a large-scale MPLS VPN core network to meet the access needs of industry private network VPN users and enterprise network VPN users.
- IPv4 to IPv6 transition technologies, including IPv6 manual tunnel, automatic tunnel, 6to4 tunnel, ISATAP tunnel, and other tunnel technologies to ensure smooth transition from IPv4 network to IPv6 network.

GL-6228GE-SFP Fiber Switch

- **Security+**
  - Support IEEE 802.1x, Radius, BDTacacs+, etc., and provide users with a complete security authentication mechanism.
  - Advanced hardware architecture design, hardware realizes hierarchical scheduling and protection of messages, supports defense against DoS, TCP SYN Flood, UDP Flood, broadcast storm, large traffic, and other attacks on the device, and supports command line classification Protection, different levels of users have different management rights.
  - Support plain text or MD5 authentication of related routing protocols, and uRPF reverse routing lookup technology to effectively control illegal services.

- **Stable and reliable**
  - Supports Efficient Ethernet and complies with International standard IEEE 802.3az.
  - Smart fan design supports switching between front-back mode and back -front mode and fan automatic speed regulation.
  - It adopts an advanced redundant dual power supply system architecture design which can realize the function of efficient power switching, unique power monitoring, slow start, real-time monitoring of the whole machine operating status, intelligent adjustment, and deep energy-saving.

- **Easy O&M management**
  - Support CPU monitoring, memory monitoring, Ping detection, cable length detection.
  - Support RMON, system log, and port traffic statistics to facilitate network optimization and transformation.
  - Support HTTPS, SSLV3, SSHV1/V2 and other encryption methods, making management more secure.
  - Support LLDP to facilitate the network management system to query and judge the communication status of the link.
  - Support Web network management, CLI (Console, Telnet), SNMP (V1/V2/V3) and other diversified management and maintenance.

- **Management**
  - Management based on browser Web
  - Traffic statistics analysis such as sFLOW
  - Support USB for file upload and download
  - NTP, Syslog, ISSU, 802.1AG and 802.3AH
  - Power alarm function, Console, Telnet, SSH 2.0
  - Ping, Tracert, Track, Telnet remote maintenance
  - SNMP (Simple Network Management Protocol)
  - File upload and download management in TFTP mode
  - Fan, temperature alarm, debugging information output
  - Classified alarm, SNMP v1/v2/v3, RMON event history

GL-6228GE-SFP Fiber Switch

Specification: -

MODEL NO.		GL-6228GE-SFP
Interface		1*USB 2.0 configuration port 24*1/10G SFP+ fiber ports (Data) 1*RS232 Console port (9600,8,N,1) 4*10G/100G SFP fiber ports (Data) 1*10/100/1000M RJ45 management port(Data
Ethernet Port		10/100/1000Base-T auto-sensing, full/ half duplex MDI/ MDI-X self-adaption
Optical Fiber Port		10G SFP+/ QSFP28 optical fiber ports, default no includes optical modules (optional single-mode/ multi-mode, single fiber/ dual fiber optical module. LC)
Optical Cable/ Distance		Multi-mode: 850nm / 0-500m Single-mode: 1310nm/ 0-40km, 1550nm/ 0-120km.
Switching Capacity		1.28Tbps (non-blocking)
Forwarding rate		952Mpps
Network Management Type		L3+
Network Protocol		IEEE802.3u 100Base-TX , IEEE802.3ab 1000Base-T, IEEE802.3z 1000Base-X, IEEE802.3ae 10Gb/s Ethernet, IEEE802.3x
Chassis	Dimensions (L*W*H) (mm)	442.5*315*44mm
	Net /Gross Weight	<6kg / <6.3kg
Power Consumption		Standby<30W, Full Load<70W
Power Supply	AC 100V-240V,50Hz±10%	75W
Noise@25°C (dBA)		41.5
MTBF(H)		>50,000
LED Indicator		Power: PWRA, PWRB (Green), System: SYS (Green), Fiber port: CG0-4(Green)
Forwarding Mode		Store-forward
MAC		32k
Buffer Size		32MB
Jumbo Frame		16K
VLAN		1:1 and N:1 VLAN Mapping Basic QinQ and flexible QinQ functions 4K VLAN entries, GVRP, Private VLAN
Multicast		Multicast group policy and multicast group number limit, IGMP v1/v2/v3, IGMP Snooping v2/v3, IGMP Fast Leave
QoS/ ACL		Queue scheduling methods such as SP, WRR, SP+WRR, etc., Congestion avoidance mechanisms such as Tail-Drop and WRED Traffic classification based on each field of the L2/L3/L4 protocol header, Ingress and Egress ACL, match L2/L3/L4 and IP quintuple