26-port 10G Core Routing Network Switch

PLN-102410GS-2100GS-L3-C



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Overview:

The PLN-102410GS-2100GS-L3-C is a high-performance L3 managed Ethernet switch oriented to the next generation of IP metropolitan area networks, large campus networks, and enterprise networks. It has 24*1/10G SFP+ fiber ports, 2 RJ45 Ports and 2*40/100G (QSFP28) fiber ports. Use 1U/19” installation.

FEATURES:

Advanced hardware architecture

- Standard data center switching between front-back mode and back -front mode deign and fan automatic speed regulation.
- 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.

Data center service feature

- VSS (Virtual Switch System) virtualization cluster switching technology
- VSS can virtualize multiple physical devices into a logical device. Its virtual system's performance, reliability, flexibility, and management are superior to independent physical devices.
- The distance of the virtual cluster system can be extended to 80km through the virtual cluster function, which is flexible and convenient, breaking the geographical restrictions of traditional cluster technology.
- The virtualization system can make full use of each link between physical devices, avoid the blocking of links by the spanning tree protocol of the traditional networking model, double the performance, and protect the original link investment to the greatest extent.
- The entire virtual system realizes unified management of a single IP, and the actual physical equipment is transparent to users, which simplifies the management of network equipment and network topology, greatly improves network operation efficiency, and effectively reduces operation and maintenance costs.
- Based on advanced distributed processing technology, through efficient

cross-physical device link aggregation function, the separation of the logical control plane and the business data plane is realized, providing uninterrupted three-layer routing forwarding, avoiding business interruption caused by single point failure, and greatly improving the reliability of the virtual system.

High reliability of data center

- Support ISSU (In-Service Software Upgrade) to ensure uninterrupted forwarding of user data during system upgrades and master control switching.
- Complete Ethernet OAM mechanism, supports 802.3ah, and realizes rapid detection and location of faults through real-time monitoring of network operation status.
- Based on HPS (Hitless Protection System), the key power supply system adopts a redundant design, modular hot-swappable, and supports seamless switching in case of failure without interrupting business.
- Support STP/RSTP/MSTP protocols, VRRP protocols, and simple and efficient redundant protection mechanisms such as ring network protection, dual uplink master-slave link protection, and LACP link aggregation.
- Ultra-high-precision BFD bidirectional link detection mechanism, through linkage with L2/L3 protocols, realizes millisecond-level fault detection and service recovery, greatly improving the reliability of the network system

Rich business feature

- Complete L2 and L3 multicast routing protocols to meet the access requirements of IPTV, multi-terminal HD video surveillance, and HD video conferencing.
- Complete L3 routing protocols and large routing table capacity to meet the needs of various types of network interconnection, and can form ultra-large data center networks, campus networks, enterprise networks, and industry user private networks

Comprehensive IPv6 solution

- Support IPv6 protocol family, IPv6 neighbor discovery, ICMPv6, Path MTU discovery, DHCPv6, and other IPv6 features.
- Support IPv6-based Ping, Traceroute, Telnet, SSH, ACL, etc. to meet the needs of pure IPv6 network equipment management and business control.
- Support IPv6 multicast features such as MLD and MLD Snooping, IPv6 static routing, RIPng, OSPFv3, BGP4+, and other IPv6 L3 routing protocols to provide users with complete IPv6 L2 and L3 solutions

Security

- Support IEEE 802.1x, Radius, and Tacacs+, to provide users with a complete security authentication mechanism.
- Advanced hardware architecture design, hardware-implemented hierarchical scheduling, and protection of messages, support for preventing DoS, TCP SYN Flood, UDP Flood, broadcast storm, large traffic, and other attacks on the device. support command line hierarchical protection, different levels of users have different management permissions.
- Support plain text or MD5 authentication of related routing protocols, support uRPF reverse routing lookup technology, which can effectively control illegal business.
- Hardware-level message deep detection and filtering technology, supports deep detection of control messages and data messages, to effectively isolate illegal data messages and improve the security of the network system.

Environmental protection design

- Support energy-efficient Ethernet function and complies with the international standard IEEE 802.3az to effectively reduce energy consumption.
- Intelligent fan design supports a flexible selection of front-to-back/back-to-front air ducts and automatic fan speed adjustment, effectively reducing the speed, and noise, and extending the fan life.
- Adopt advanced power system architecture design to achieve efficient power conversion, unique power monitoring, slow start, and other functions, real-time monitoring of the whole machine operation status, intelligent adjustment, and deep energy saving.

Model	PLN-102410GS-2100GS-L3-C
Fixed Port	24*1/10G SFP+ fiber ports (Data)
	2*40G/100G QSFP28 fiber ports (Data)
Power Port	2 ports
Fan	4 (built-in)
Processor	800Mhz
RAM	2GB
Switching Capacity	880Gbps (non-blocking)
Forwarding Rate@64byte	654.72Mpps
MAC	32K
Buffer Memory	32M
Power Supply	AC100~240V 50Hz±10%

Operation Temp/Humidity	Humidity -10°C~+50°C, 5%~90% RH non condensing
Storage Temp/ Humidity	-20°C~+70°C, 5%~95% RH non condensing
Dimension (L*W*H)	442.5*300*44.5mm
Datacenter Feature	Support VSS virtualization technology
	Configurable MAC address aging time
	Black hole MAC, Mac address learning quantity limit
MAC Exchange	Static configuration and dynamic learning of MAC addresses View and clear MAC addresses, MAC address filtering function
	GVRP, Private VLAN, 4K VLAN
VLAN	1:1 and N:1 VLAN Mapping, Basic QinQ and QinQ functions
STP	802.1D (STP), 802.1W (RSTP), 802.1S (MSTP)
	BPDU protection, Root protection, Loop protection
Multicast	Multicast traffic cross-VLAN replication
	Support multicast group policy and multicast group quantity limit IGMP v1/v2/v3, PIM-SM, PIM-DM, IGMP Snooping, IGMP Fast Leave
IPv4	Policy routing, BFD for OSPF, BGP
	Equal-cost routing to achieve load balancing
	Static routing, RIP v1/v2, OSPF, BGP, IS-IS, BEIGRP
IPv6	MLD v1/v2, MLD Snooping
	ICMPv6, DHCPv6, ACLv6, IPv6 Telnet Manual tunnel, ISATAP tunnel, 6to4 tunnel IPv6 static routing, RIPng, OSPFv3, BGP4+ IPv6 neighbor discovery, Path MTU discovery
Qos	802.1P/DSCP priority remarking
	CAR traffic limit, Traffic policing and traffic shaping
	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, copy, forward and discard
	Hash origin and same destination load balancing to ensure session
	integrity of traffic output
Security	uRPF, IEEE 802.1x certified, Radius, Tacacs+ certified IP+MAC+port binding, DHCP Snooping, DHCP Option 82
	Port security, Port isolation, command line hierarchical protection Suppression of multicast, broadcast, and unknown unicast packets Prevent DDoS attacks, TCP SYN Flood attacks, UDP Flood attacks ACL flow identification and filtering security mechanism based on L2/L3/L4
Reliability	Optional power supply 1+1 backup
	GR for OSPF, BGP, BFD for OSPF, BGP
	VRRP hot standby protocol, EAPS, ERPS ring network protection Static/LACP link aggregation, support for cross-service card link aggregation

Management	SNMP v1/v2/v3, Browser-based Web management
	ZTP(Zero Touch Provisioning), RMON event history
	Console, Telnet, SSH 2.0, TFTP file upload and download management
Green Energy Saving	IEEE 802.3az green energy-efficient Ethernet