DATA CENTER SWITCH **S9100-32X**

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S9100-32 is a data center class switch product with 32 * 100GE, 64 * 50GE or 128 * 25GE QSFP28 ports. S9100-32X can fulfill all data center needs such as large capacity, high performance, and high reliability. And also provides numerous data center software feature. It not only complies with environment policies but also lower user's operating costs.

MAIN ADVANTAGES

> Optimization for Data Center

> 32 × 100GE or up to 128 × 25GE QSFP28 Ports

> Line rate switching capacity

> L2 and L3 software feature support

> IPv4, IPv6 and Dual stack Ready

> OpenFlow Technology

> Redundant Power & Fan

> Airflow : Front to back or Back to front

DESCRIPTION:

System Specification
- CPU: Intel Rangeley C2558 2.4G 4-Core
- RAM: DDR3 8GBwith ECC
- SSD: M.2 64GB
- Switching Capacity: 6.4 Tbps
- Packet throughput: 2.98 Gpps
- MAC Address Table: 40K [1]
- MTBF: 206000 hours
- Airflow: Front-to-Back or Back-to-Front
- Fan: 3+1 redundant FAN FRU
- Power Supply: 1+1 redundant 550W PSU FRU

Package Specification
- Dimension(W×D×H): 440 × 406 × 44 mm
  Weight: 8.7Kg

Operation Environment
- Input Voltage: 100V-240V, 50Hz-60Hz
- Operation Temperature: 0°C ~ 45°C
- Operation Humidity: 5% ~ 95% non-condensing

L2 Switching Feature
- VLAN
  - 802.1Q VLAN
  - Port Based VLAN
  - Q in Q
- Spanning Tree Protocol
  - IEEE 802.1D
  - IEEE 802.1w

- IEEE 802.1s
- Spanning Tree Fast Forwarding
- Storm Control
  - Broadcast Storm Control
  - Unknown Multicast
  - DLF (unknown unicast)
- IGMP Snooping
  - IGMP Snooping v1/v2/v3
  - IGMP Immediate Leave
  - MLD Snooping
- QoS Features
  - 8 priority queues
  - WRR, Strict priority, Hybrid
  - 802.1p based COS
  - IP TOS/DSCP Classification

L3 Routing Features
- Number of IP interface: 128
- Multi-netting / CIDR
- Static route
- 48-way ECMP
- OSPF v2/v3
- BGP v4/v6
- VRRP
- Policy-based Routing (PBR)

IP Multicast
- MLD v1/v2
- DVMRP
- PIM-DM v4/v6

- PIM-SM v4/v6
- IGMP proxy

IPv6
- IPv4/v6 dual stack
- ICMPv6
- ICMPv6 redirect
- IPv6 Path MTU Discovery
- IPv6 Neighbor Discovery
- Stateless Auto-configuration
- Manual Configuration

Datacenter Features
- FIP Snooping
- Congestion Notification (CN)
- PFC
- DCBX for PFC (CIN/CEE v1.06/IEEE)
- Puppet/Chef Support
- VXLAN/NVGRE support
  - Neutron plug-ins for OpenStack
- MLAG Support
- Open API
- OpenFlow v1.0/v1.3

Certification

[1] MAC Table size can be adjusted

DATA CENTER SWITCH DESIGN

S9100-32X is designed for next generation Spine-leaf architecture by upgrading port speed from 25G to 100G and dramatically enhance the workload for East-West traffic in Datacenter.

FULLY SUPPORT IPV6 PROTOCOL

S9100-32X support for IPv6 routing protocols like IPv6 static routes, OSPFv3, BGP4+, PIM; support for extensive transition technologies from IPv4 to IPv6, and dual stack IPv4, IPv6 management function, thus ensuring smooth migration to future generations of Internet to come.

OPENFLOW TECHNOLOGY

S9100-32X fully supports OpenFlow protocol. It's fully open architecture for SDN while providing customers with more flexible network business model and innovative platform. Also it elevates network service capability, allowing network to provide better application services.

AUTOMATION

Accompanied by the application of cloud computing, big data and parallel calculation, datacenter network devices continue to grow fast and make network automation a critical factor. Supporting auto installation and integration with orchestration tools like Chef and Puppet, S9100-32X switches help for easy deployment of mass datacenter IaaS build-up.

VIRTUALIZATION

Network virtualization is becoming an important topic for datacenters. S9100-32X provides hardware-based VXLAN/NVGRE feature to support virtual machine mobility. Not limited by 4K VLANs, VXLAN/NVGRE helps for the network scaling out across L3 subnets and can support up to 16.7M possible virtual networks. To reduce the network OPEX, a neutron plug-in highly integrated with OpenStack is provided for customer to deploy their virtual machine in a few minutes.

RELIABILITY

S9100-32X has multiple layers of reliable protection at both equipment and link levels. S9100-32X equips with dual power supply and fan assembly with overcurrent, overvoltage, and overheating protection technologies. Provides the hot swappable modularized power supply and fan to strengthen equipment reliability and not impact the daily operation.

Additionally, S9100-32X also supports for monitoring alarm function in the failure event of power supply or fan. It also supports auto-adjusting fan speed according to temperature changes, system hot backup without system reboot or reconfiguration, switch over to backup system in event of primary system failure to ensure uninterrupted data processing and operation.

NETWORK MANAGEMENT

S9100-32X supports extensive types of management ports, such as Console, out-of-band management port, USB port; support CLI commands, TELNET and FTP configuration; support SNMPv1/V2c/v3 and power management tools Puppet, Chef to make equipment management even easier; support for SSH2.0, SSL encryptions to make management even more secure.

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