DATA CENTER SWITCH **S6800-56ST**

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S6800-56ST is a data center class switch product with 48 × 1GE Base-T and 8 × 10GE SFP+ ports. S6800-56ST is played the role as TOR switch to link with server and storage or IPMI (Intelligent Platform Management Interface) switch. And also provides numerous data center software feature. It not only comply with environment policies but lower user's operating costs.

MAIN ADVANTAGES

> Optimization for Data Center

> 48 × 1GE-Base T and 8 × 10GE SFP+ 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: ARM Cortex A9@1GHz RAM: DDR3 2GB with ECC NAND Flash: 2GB
- Switching Capacity: 256Gbps
- Packet throughput: 190Mpps
- MAC Address Table: 24K [1]
- MTBF: 449,000 hours
- Airflow: Front-to-Back or Back-to-Front
- Fan: 1+1 redundant FAN FRU
- Power Supply: 1+1 redundant 460W PSU FRU

Package Specification
- Dimension(W×D×H): 440 × 406 × 44 mm Weight: 8.6 Kg

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
- 32-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)
- ETS
- PFC
- DCBX for PFC (CIN/CEE v1.06/IEEE)
- DCBX for ETS (CIN/CEE v1.06/IEEE)
- MLAG Support
- Open API
- OpenFlow v1.0/v1.3 [2]

Certification

[1] MAC Table size can be adjusted
[2] It is supported in the feature firmware upgrade

DATA CENTER SWITCH DESIGN

S6800-56ST provides 48 × 1GE-Base T for downlink port to Server and 8 × 10GE QSFP for uplink port to cloud. It could be deployed as the Top of Rack switch or as part of distributed spine network.S6800-56ST offers the high performance and reliability for data center environment.

FULLY SUPPORT IPV6 PROTOCOL

S6800-56ST is the IPv6 ready switch. It supports for extensive transition technologies from IPv4, IPv6, dual stack, and IPv6 management function. S6800-56ST also supports the IPv6 routing protocols like IPv6 static routes, OSPFv3, BGP4+, PIM. Smoothly migration to future generations of Internet.

OPENFLOW TECHNOLOGY

S6800-56ST 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.

RELIABILITY

S6800-56ST has reliable protection at both equipment and link levels. S6800-56ST 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, S6800-56ST 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. 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.

SECURITY MANAGEMENT

S6800 switch support AAA and RADIUS authentication; support for static or dynamic binding of user identifying elements such as user account, IP, MAC, VLAN, and port; provide increased ACL control logic by supporting large capacity inbound and outbound port ACL, and support for VLAN based ACL issuing, thus avoiding to waste ACL resource while simplifying user configuration process. Complete protection strategies to effectively prevent DHCP starvation attack, DHCP request broadcast attack, ARP broadcast attack, ARP spoofing attack, and DHCP spoofing attack

NETWORK MANAGEMENT

S6800-56ST supports extensive types of management ports, such as Console, out-of-band management port, USB port. Support CLI commands, SNMPV2c/V3 to manage even easier.

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