# Innovative Datacenter Switch

48 x 1GE Base-T & 8 x 10GE SFP+ Ports



## High-density, datacenter optimized server switching.

The rapid growth in demand for bandwidth shows no signs of stopping, requiring datacenters to constantly build upon the existing density of their networking environments. The S6800-56ST switch is a datacenter-class switch product with 48 x 1GE Base-T and 8 x 10GE SFP+ ports designed to meet customers' large capacity data switching needs with superior performance and unsurpassed reliability. By providing a high number of ports in a single compact switch, the S6800-56ST makes automation and orchestration easier than ever, simplifying datacenter network infrastructure through its innovative architecture and extensive datacenter-ready features. With its low-latency, high-density ports, the S6800-56ST makes scale-out easy, giving datacenters unmatched capacity to meet whatever demands the future may bring. Flexible, reliable, powerful - maximize your return on investment and ensure compliance with environmental policies with the next-generation S6800-56ST.

### **Key applications**

- High-density 1GE ToR server aggregation for high-performance datacenter environments.
- Hot/cold aisle airflow support, front to rear and rear to front.
- Enables cost-effective application of 10GE uplinks through small-scale implementation in Spine-Leaf networks.
- Serves as TOR switch to link with a server or as IPMI switch.
- VXLAN/NVGRE capable hardware supporting virtual machine mobility.
- Extensive transition technologies for IPv4, IPv6, and dual stack management functions.
- Superior management and security through console and out-of-band interface options.
- High-speed Layer 2 deployment support to connect nonvirtualized infrastructure with hyper visor-based overlay networks.

### **Key features**

- 48 x 1GE Base-T & 8 x 10GE SFP+ ports for downlinking and uplinking capability.
- Modular dual power supply and fan assembly with overcurrent, overvoltage, and overheating protection.
- Next-generation Spine-Leaf network architecture, enhancing capacity and optimizing scaling.
- ARM Cortex A9@1GHz CPU with 256 Gbps switching capacity.
- Specifically designed for utilization in high-performance datacenter environments.
- Hot and cold backup switching without system reboot or reconfiguration ensuring uninterrupted data processing and operation.
- Non-blocking switching architecture.



**Cloud & Data Center Solution** 

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## **Specifications**

#### **Physical**

- Compact full featured modular 1GE/10GE datacenter switch
- 1 Mini USB console/management port with RS232 signaling
- 1 10/100/1000 Base-T Ethernet for Out-of-Band management
- 1 USB 2.0 Type-A port

ARM Cortex A9@1GHz **Processor** 

DDR3 2GB w/ ECC SODIMM **Memory** 

**Storage** NAND Flash: 2GB

Broadcom BCM56344 (Helix 4) **ASIC** 

**Built-in** Total 1GE Base-T: 48

**Interfaces** Total 10GE: 8

**LED** Power, system, link & activity, fan & PSU status

Chassis 1 RU, 440w x 44h x 406d mm

(17.32" x 1.73" x 15.98")

Weight (including 2 x PSUs & 2 x fans):

7.92 kg (17.46 lb)

Redundancy Two hot swappable power supplies with

integrated fans and trays

#### **Environmental**

- Fresh air compliant to 45°C (113°F)
- Rack mounting kit

AC input: 100V-127V, 5.8A, 50/60Hz **Power supply** 

AC input: 200V-240V, 2.9A, 50/60Hz

Typical/Max power draw: 88/116Watts

Specs.

Max. operating Operating temperature: 0°C to 45°C (32°F to 113°F) Operating humidity: 10% to 90% (RH), noncondensing

Max.

Storage temperature: -40°C to 70°C (-40°F to 158°F)

non-operating Specs.

Storage humidity: 5% to 95% (RH), non-condensing

**Performance** 

**Switching** Capacity

256Gbps

**Packet** throughput 190Mpps

Regulatory compliance

**EMC** EN55032 Class A

EN61000-3-2/EN61000-3-3

EN55024

FCC P15B Class A

BSMI (CNS 13438) Class A CCC (GB9254) Class A

RoHS: RoHS 6

IEC/EN 60950-1/A2 Safety

BSMI (CNS 14336-1) CCC (GB4943)

## S6800-56ST Views



S6800-56ST front view



S6800-56ST rear view

## **Supported Accessories**

**Transceiver** 10GE, SR SFP+ 10GE, LR SFP+

Cable types 10GE, SFP+ to SFP+, Active Optical Cable 10GE, SFP+ to SFP+, Direct Attached Cable

Power supply types DPS-460KBL-FTB, 460W AC PSU, airflow from panel to rear side (front to rear) DPS-460KBK-BTF, 460W AC PSU, airflow from rear to panel side (rear to front)

> Fan normal airflow from panel to rear side Fan types Fan reverse airflow from rear side to panel

> > Fan spare supports normal and reverse airflow operations