

# S9300-32D

## 400GE

### Data Center Switch

Next generation cloud service applications not only consume more data, it requires service providers to build more flexible, agile and scalable networks to meet the increasing demands of their customers. The evolution to 400G will provide data centers with the capability to meet capacity demands. The S9300-32D 400G data center switch will provide data centers with a rich set of features, multiple protocol support, and run-time programmability, which will enable high performance in the most demanding environments.

The S9300-32D is a white box data center switch with open network capabilities. It can be positioned as a programmable ToR (Top-of-Rack), spine/leaf switch, core aggregation and data center interconnect. The load balancing and congestion management from the S9300-32D enables it to be positioned as an application load balancer.



## KEY BENEFITS

- Monitoring link status to re-assign traffic flow dynamically
- Optimization for the east-west traffic pattern
- Flexible and efficient data processing
- Open source NPL programming language
- Centralize and adaptive packet memory management architecture
- On-chip packet buffers minimize the data latency
- Optimal buffer utilization and burst absorption
- Packet level telemetry with microsecond granularity
- Enable real-time network status visibility

## KEY FEATURES

- High density 32 x 400G service interfaces
- 12.8Tbps switching capacity
- Intel® Skylake-D 8-cores
- Broadcom Trident4-X11 Silicon
- Individual BMC for monitoring and managing equipment health status
- Hot swappable power supplies with 1+1 redundancy support
- Hot swappable fan modules with 5+1 redundancy support

# SPECIFICATIONS

## PHYSICAL

- ◆ 32 x 40/100/200/400G QSFP-DD ports with 400G ZR/ZR+ support
- ◆ 2 x 1/10G SFP+ ports
- ◆ 2 x 10G SFP+ management port
- ◆ 1 x 100/1000M RJ-45 OOB management port
- ◆ 1 x RJ45 serial console ports
- ◆ 1 x USB 3.0 Type-A port

**ASIC** Broadcom Trident4-X11 BCM56880

**Processor** Intel Skylake-D 8-Core @ 1.9GHz

**Memory** 32GB DDR4

**Storage** 1x128GB SSD

**BMC** Aspeed AST2400

**Chassis**  
(WxDxH) 1RU, 436 x 645 x 43.8 mm  
or 17.17" x 25.4" x 1.72"  
Weight: 11.34 kg or 25 lbs (Without FRU)

**Redundancy** Hot swappable, 1+1 redundant PSU  
Hot swappable, 5+1 redundant Fans

## ENVIRONMENTAL

**Power Supply** AC input: 200 to 240V, 7.5A  
DC input: -40V to -75V, 40A  
Typical power: 403 Watts (no transceiver)

**Max. Operating Specs.** Operating temperature: 0°C to 40°C (32°F to 104°F)  
Operating humidity: 5% to 95% (RH), noncondensing

**Max. Non-Operating Specs.** Storage temperature: -40°C to 70°C (-40°F to 158°F)  
Storage humidity: 5% to 95% (RH), non-condensing

## PERFORMANCE

**Switching Capacity** 12.8 Tbps

**Packet Buffer** 132 MB

## REGULATORY COMPLIANCE

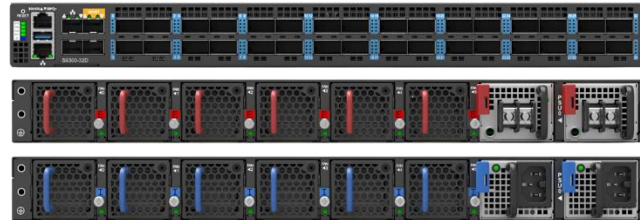
Safety	EMC
UL 62368-1	FCC Part 15, Subpart B, Class A
IEC 60950-1	ICES-003, Class A
IEC 62368-1	EN 55032, Class A
BSMI	EN 300 386
MTCTE	EN 55024
	EN 55035
	BSMI
<b>Environment</b>	VCCI CISPR 32, Class A
RoHS	AS/NZS CISPR 32, Class A
WEEE	MTCTE

Specifications are subject to change without notice  
Contact our sales team for current configuration options.

# S9300-32D

Cloud &  
Data Center  
Solutions

### S9300-32D Front and Back Views



Front to Back Airflow

Back to Front Airflow

## SUPPORTED ACCESSORIES

### Compatible Transceivers Types

400GE QSFP-DD ZR, 400GE QSFP-DD ER4, 400GE QSFP-DD LR4, 400GE QSFP-DD SR8, 400GE QSFP-DD FR4, 400GE QSFP-DD DR4, 400GE QSFP-DD DR4+, 400GE QSFP-DD PLR4, 200GE SFP56 SR4, 200GE QSFP56 FR4, 100GE QSFP28 ZR4, 100GE QSFP28 ER4, 100GE QSFP28 LR4, 100GE QSFP28 SR4

### Available to Order

#### Power Supply Types

PSU-132-DESR-3N, 1300W DC, exhaust air flow  
PSU-132-DISB1, 1300W DC, intake air flow  
PSU-132-AESR-3N, 1300W AC, exhaust air flow  
PSU-132-AISB1, 1300W AC, intake air flow

#### Fan Types

FAN-405637-HD, exhaust air flow  
FAN-405637-CD, intake air flow

