

S9321-64EO

800G

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 800G will provide data centers with the capability to meet capacity demands of AI application. The S9321-64EO 800G data center switch will provide data centers with a rich set of features such as large forwarding database, powerful load balancing and robust buffer performance to address the rapidly increasing scale of data center network deployments and distributed computing applications.

The S9321-64EO is a white box data center switch with open network capabilities. It can be positioned as a spine/leaf switch and core aggregation. The load balancing and congestion management from the S9321-64EO enables it to be positioned as an application load balancer.



KEY BENEFITS

- Hardware-based encapsulation
- Network monitoring and network congestion detection
- Data center bridging capability exchange protocol (DCBX) congestion management: priority-based flow Control (PFC) and Enhanced Transmission Selection (ETS).
- Per-virtual machine traffic shaping
- Dynamic load balancing for equal cost multipath (ECMP) groups.
- Integrated high-performance SmartBuffer memory for maximum burst absorption and service guarantees
- Extensive support for streaming and in-band telemetry
- Suitable for applications such as data center, cloud computing, mobile core, and large-scale enterprise campus backbone

KEY FEATURES

- High density 64 x 800G service interfaces
- 51.2Tbps switching capacity
- Intel® Icelake-D 4-cores
- Broadcom Tomahawk5 Silicon
- Individual BMC for monitoring and managing equipment health status
- Hot swappable power supplies with 1+1 redundancy support
- Hot swappable fan modules with 3+1 redundancy support

SPECIFICATIONS

PHYSICAL

- ◆ 64 x 100/400/800G OSFP ports
- ◆ 2 x 25G SFP28 ports
- ◆ 1 x 100/1000M RJ45 OOB management port
- ◆ 1 x RJ45 & Micro USB serial console port
- ◆ 1 x USB 3.0 Type-A port

Processor Intel Icelake-D 4-Core @ 1.9GHz

Memory 2x 16GB DDR4 R-DIMM

Storage 1x 128GB M.2 SSD

ASIC Broadcom Tomahawk5 BCM78900

BMC AST2620

Timing Interfaces 1 x 1PPS input/output SMB(Premium)
1 x 10MHz input/output SMB(Premium)

Timing Support Stratum 3E OCXO
ITU-T Synchronous Ethernet (SyncE)
IEEE 1588v2 (Default, G.8265.1, G.8275.1,
G.8275.2), T-TC, T-BC/OC, T-GM

Chassis (WxDxH) 2RU, 436 x 762 x 87.7 mm
or 17.17" x 30" x 3.45"
Weight: 31.07 kg (68.49 lbs)

Redundancy Hot swappable, 1+1 redundant PSU
Hot swappable, 3+1 redundant Fans

ENVIRONMENTAL

Power Specs. AC input: 200 to 240V, 16A
DC input: -40V to -72V, 80A
Typical power(no transceiver): 768 Watts

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

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 51.2 Tbps

Packet Buffer 165.2 MB

REGULATORY COMPLIANCE

Safety UL 62368-1 IEC 62368-1 EMC FCC Part 15, Subpart B, Class A

Environment WEEE

Specifications are subject to change without notice.

S9321-64EO

Cloud &
Data Center
Solutions

S9321-64EO Front and Back Views



ACCESSORIES

Compatible Transceivers Types

800GE OSFP OpenZR+, 800GE OSFP ZR, 800GE OSFP 2xLR4, 800GE OSFP 2xFR4, 800GE OSFP DR8+, 800GE OSFP DR8, 800GE OSFP SR8, 400GE OSFP OpenZR+, 400GE OSFP ZR, 400GE OSFP ER4, 400GE OSFP LR4, 400GE OSFP FR4, 400GE OSFP SR8, 400GE OSFP DR4, 400GE OSFP DR4+, 400GE OSFP PLR4

Compatible Timing Cable Types

SMB coaxial cable with 10-32UNF-2A connector for 1PPS and 10MHz

Available to Order

Power Supply Types

PSU-302-DESR, 3000W DC, exhaust air flow
PSU-302-AESR, 3000W AC, exhaust air flow

Fan Types

FAN-808012- HCE, exhaust air flow

