

S9321-64EO

800G

Data Center Switch

Next-generation cloud service applications not only consume more data; they require 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 the capacity demands of AI applications. The S9321-64EO 800G data center switch provides a rich set of features such as a 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 or for core aggregation. The advanced load balancing and congestion management of the S9321-64EO also enable it to be utilized as an application load balancer.



KEY BENEFITS

- Hardware-based encapsulation
- Network monitoring and network congestion detection
- End-to-end congestion control designed to handle large, low entropy flows typical of AI/ML workloads
- 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 AI 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® Xeon® D 4-cores
- Broadcom® Tomahawk 5 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 200/400/800G OSFP ports	
♦ 2 x 10/25G 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® Xeon®D 4-Core @ 1.9GHz
Memory	32GB DDR4
Storage	128GB M.2 SSD
ASIC	Broadcom® Tomahawk 5 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)
Chassis (WxDxH)	2RU, 436 x 762 x 87.7 mm or 17.17" x 30" x 3.45" Weight: 23.74 kg or 52.33 lbs (Without FRU)
Redundancy	Hot swappable, 1+1 redundant PSU Hot swappable, 3+1 redundant Fans

Contact our sales team for current configuration options.

S9321-64EO

Cloud & Data Center Solutions

ENVIRONMENTAL

Power Specs.	AC input: 200 to 240V, 16A
	DC input: -40V to -72V, 80A
	Typical power: 925 Watts (no transceiver)
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 ICES-003, Class A EN 55032, Class A EN 300 386 EN 55035 VCCI CISPR 32, Class A
	Environment WEEE		

Specifications are subject to change without notice.

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