

S9311-64D

400GE

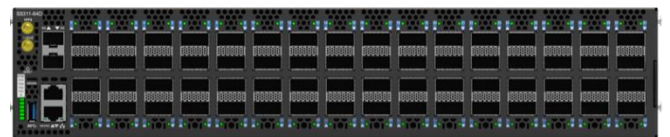
Data Center Switch

The UfiSpace S9311-64D functions as a high-density white box switch engineered for hyperscale data centers and AI/ML fabrics. This platform addresses exponential bandwidth demands, aiming to support expanded network capacity and scalability.

With 64 x 400GE QSFP-DD ports, the S9311-64D data center switch acts as a high-capacity aggregation point, ideal for interconnecting large clusters of high-performance compute and storage resources with non-blocking, line-rate Ethernet connectivity.

This switch delivers an incredible 25.6 Tbps of throughput in a power-efficient 2RU form factor, helping operators to increase rack density while managing operational expenses like power and cooling.

The S9311-64D provides the foundation for next-generation networks with its powerful Tomahawk 4 processor and 64 high-speed 400GE interfaces. It is built for mission-critical reliability, featuring 1+1 hot-swappable power supplies and 3+1 redundant fans for maximum uptime, simplified serviceability, and enhanced operational stability.



KEY BENEFITS

- Offers comprehensive L2/L3 and tunneling functions at guaranteed line-rate speed
- Maximum port density with low power and latency enables hyperscale efficiency and a lower TCO
- Advanced congestion control builds lossless network fabrics and allows for intelligent traffic engineering
- Intelligent load balancing eliminates hash polarization for efficient and predictable link utilization
- A 7nm process ensures industry-leading power efficiency and performance per watt
- Deep optimization for AI/ML workloads delivers maximum throughput and the lowest latency for RoCEv2 fabrics

KEY FEATURES

- High density 64x400G Data Center Spine Switch
- 25.6Tbps switching capacity
- 64 x 40/100/200/400G QSFP-DD ports
- 2 RU, small form factor with 580mm depth
- Broadcom® Tomahawk 4 Silicon
- Intel® Icelake-D Quad-Cores
- Hot swappable power supplies with 1+1 redundancy support
- Hot swappable fan modules with 3+1 redundancy support
- Bi-directional air flow option available

SPECIFICATIONS

PHYSICAL

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

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|-----------|-------------------------------------|
| Processor | Intel Icelake-D 4 Cores @ 2.4GHz |
| Memory | 2x16GB DDR4 R-DIMM with ECC support |
| Storage | 1x128GB SSD |
| BMC | Aspeed AST2620 |

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

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| Chassis (WxDxH) | 2RU, 436 x 580 x 87.7 mm 17.16 x 22.8 x 3.45 in. Weight withou FRU: 18.52kg (40.8 lbs) |
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| Redundancy | Hot swappable, 1+1 redundant PSU Hot swappable, 3+1 redundant Fans |
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S9311-64D

Cloud & Data Center Solutions

ENVIRONMENTAL

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|---------------------------|--|
| Power Supply | AC input: 200 to 240V, 16A DC input: -48V to -60V, 70A Typical power: 387.5 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

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|--------------------|-----------|
| Switching Capacity | 25.6 Tbps |
| Packet Throughput | 10.6 Bpps |

REGULATORY COMPLIANCE

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|-------------|---------------------------|-----|--|
| 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 BSMI (CNS 13438), Class A VCCI CISPR 32, Class A |
| Environment | RoHS WEEE | | |

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

S9311-64D Front and Back Views



SUPPORTED ACCESSORIES

Compatible Transceivers Types

400GE QSFP-DD OpenZR+, 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 QSFP56 SR4, 200GE QSFP56 FR4, 100GE QSFP28 ZR4, 100GE QSFP28 ER4, 100GE QSFP28 LR4, 100GE QSFP28 SR4

Compatible Timing Cable Types

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

Available to Order

Power Supply Types

PSU-242-AECRN 2400W, AC, exhaust air, CRPS type, red colored latch
PSU-242-DEERN 2400W, DC, exhaust air, CRPS type, red colored latch
PSU-242-AICB-NN 2400W, AC, intake air, CRPS-D-SUB/AC-inlet, blue latch
PSU-242-DIEB-NN 2400W, DC, intake air, CRPS TE 2204535-3 ELON Mini, blue latch

Fan Types

FAN-805616-CCD intake air
FAN-805616-HCE exhaust air