

S9180-32X

100G

Data Center Switch

As demand for bandwidth continue to grow, data centers must be flexible in order to continuously enhance their network environments. UfiSpace's S9180-32X switch is a P4 language programmable 100GE switch that offers data centers the capacity for network differentiation, allowing programmers to clearly specify a network's forwarding behavior. This in turn provides unparalleled flexibility to meet the ever increasing capacity demands.

In a compact 1RU form factor, the S9180-32X supports up to 32 x 100GE QSFP28 ports and provides all the power needed to simplify data center network infrastructures and scale-out easily. Our data center switch gives data centers unmatched capacity to meet whatever bandwidth demands the future may bring.



KEY BENEFITS

- Cost-effective, bare-metal switch infrastructure for data center fabric.
- Automate loading of compatible open source and commercial network operating systems through ONIE.
- Introduce customized protocols.
- Design and implement simplified and streamlined network for even larger network capacities.
- Apply effective forwarding processes for completely network transparency.
- Build key-value management services directly into the network data plane.
- Deploys as high-speed Layer 2 gateway to connect nonvirtualized infrastructure with hypervisor-based overlay networks.

KEY FEATURES

- Barefoot Tofino with P4 programmable chipset.
- Full forwarding-plane programmability.
- 32 x 100GE QSFP28 and 2 x 10GE SFP+ ports .
- Next-generation Spine network architecture, enhancing workload capacity and optimizing network scaling.
- Intel® Broadwell 2.2GHz 4 Cores / 2.0GHz 8 Cores.
- Hot-swappable PSUs and FANs
- Non-blocking switching architecture.

SPECIFICATIONS

PHYSICAL

- ◆ 32 x 40/100G QSFP28 ports
- ◆ 2 x 1/10G SFP+ ports
- ◆ 1 x 10/100/1000M RJ45 management port
- ◆ 1 x RJ45 serial console port
- ◆ 1 x USB 2.0 Type-A port

Processor Intel Broadwell 4-Core @ 2.2GHz
Intel Broadwell 8-Core @ 2.0GHz

Memory 16GB DDR4
32GB DDR4

Storage 128GB SSD

ASIC Barefoot Tofino BFN-T10-032D

LED Power and System status LEDs
Link and Activity LEDs
FAN Status LED
PSU Status LED

Chassis (WxDxH) 1RU, 440 x 428 x 44 mm or
17.32" x 16.85" x 1.73"
Weight: 6.22kg or 13.71lbs

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

ENVIRONMENTAL

Power Specs. AC input: 100 to 240V, 7A
DC input: -48 to -60V, 16A
Typical power: 135 Watts (no transceiver)

Max. Operating Specs. Operating temperature: 0°C to 45°C (32°F to 113°F)
Operating humidity: 10% to 90% (RH), non-condensing

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

PERFORMANCE

Switching Capacity 3.2 Tbps

Packet Throughput 2.44 Gbps

REGULATORY COMPLIANCE

Safety UL 62368-1
IEC 60950-1
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

Specifications are subject to change without notice.

S9180-32X

Cloud &
Data Center
Solutions

S9180-32X Front and Back Views



ACCESSORIES

Compatible Transceivers Types

100G QSFP28 SR4, 100G QSFP28 eSR4, 100G QSFP28 LR4, 100G QSFP28 DWDM4 2Km, 100G QSFP28 PSM4 500m

Compatible Cable Types

100G QSFP28 to 4x25G SFP28 DAC, 100G QSFP28 to QSFP28 AOC, 100G QSFP28 to QSFP28 DAC

Available to Order

Power Supply Types

PSU-651-DECR, 650W DC, exhaust air flow
PSU-651-DICB, 650W DC, intake air flow
PSU-551-AECR, 550W AC, exhaust air flow
PSU-551-AICB, 550W AC, intake air flow

Fan Types

FAN-405622-HD, exhaust air flow
FAN-405622-CD, intake air flow

