

800G DATA CENTER SWITCH

AS9817-64D

The Accton AS9817-64D is an 800G high-performance switch platform for modern data center applications. The switch provides line-rate L2 and L3 switching across the 64 x 800 GbE ports, each supporting 2 x 400 GbE, 4 x 200 GbE, or 8 x 100 GbE via breakout cables. The AS9817-64D can be deployed as a super-spine switch supporting 100/200/400 GbE spine/leaf interconnects. This switch platform is loaded with the Open Network Install Environment (ONIE), which supports the installation of compatible Network Operating System (NOS) software, including the open source software Open Network Linux (ONL).



Key Features

Interfaces

- High-performance, high-port-density data center Ethernet switch
- 64 x 800 GbE switch ports

Components

- Incorporates Broadcom Tomahawk 5 51.2 Tbps switch silicon
- Intel Ice Lake-D LLC CPU with BMC

Physical

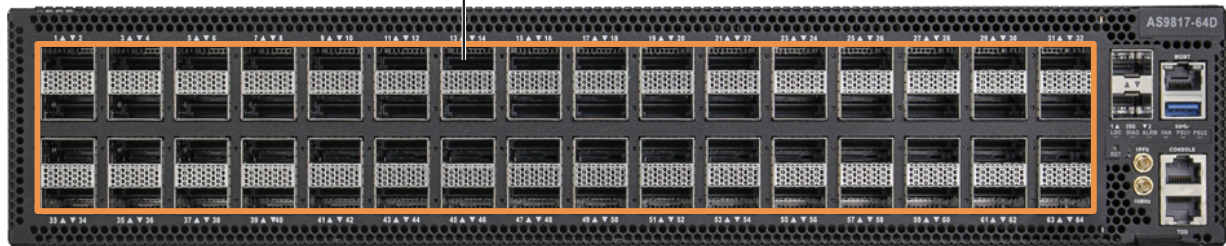
- 2RU form factor
- Supports front-to-back airflow cooling
- All ports on front; PSUs and fans accessible from rear
- Hot-swappable, load-sharing, redundant 1+1 PSUs
- 3+1 redundant, hot-swappable fan modules

Software

- Bare-metal hardware switch pre-loaded with diagnostic software and Open Network Install Environment (ONIE)

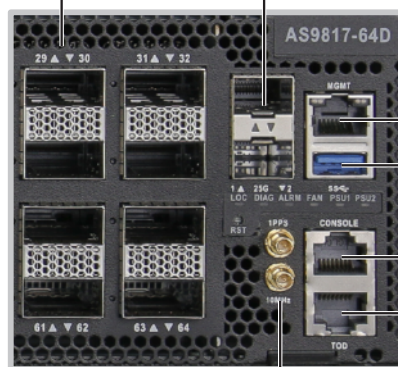
Overview

64 x QSFP-DD800 ports



QSFP-DD800 port LEDs

2 x 25G SFP28 Management ports



RJ-45 Management port

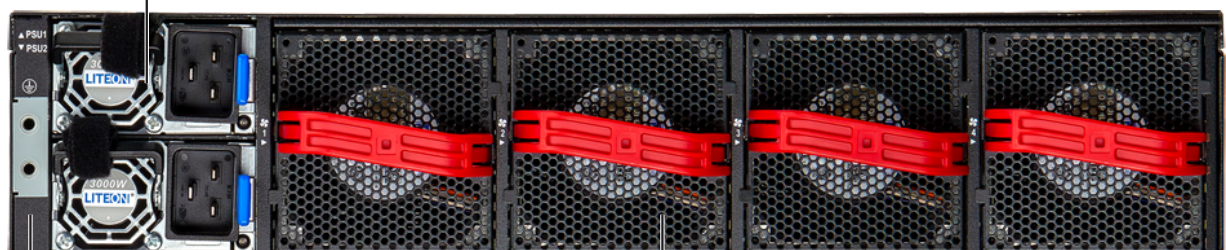
USB storage port

Console port

TOD port

1PPS & 10MHz ports

1+1 redundant PSUs



Grounding point

3+1 redundant fans



Specifications

Ports

64 x 800G QSFP-DD800 switch ports
1 x RJ-45 UART RS232 console port
1 x RJ-45 out-of-band management Ethernet port
2 x SFP28 in-band management Ethernet ports
1 x USB 3.0

Key Components

Switch Silicon: Broadcom Tomahawk 5 (BCM78900) 51.2 Tbps multi-layer Ethernet switch controller
CPU: Intel Ice Lake-D D1713NTE 4C Processor
Memory: 16GB x 2 with ECC (SO-DIMM) DDR4
Storage: M.2 240G NVMe SSD
NOR Flash (Boot): 64MB
NOR Flash (Backup): 64MB
BMC: AST2600

Timing

Supports IEEE 1588v2 and SyncE
1 x 10MHz I/O SMB
1 x 1pps I/O SMB
1 x TOD RJ-45

Physical and Environmental

Dimensions (WxDxH): 438.4 mm x 648.2 mm x 88 mm
Fans: Hot-swappable 3 + 1 redundant fans
Operating Temperature: 0°C – 40°C (32°F – 104°F)
Operating Humidity: 5% – 95% non-condensing

Software

Switch pre-loaded with Open Network Install Environment (ONIE) software installer

Power Supply

3000 W PSUs. Front-to-back airflow (AC to DC), 1+1 redundancy (at 220 V input), load-sharing, hot-swappable.

Regulatory

EMI
CE Mark
FCC Title 47, Part 15, Subpart B Class A

Safety

CB EN60950, UL60950 EN62368, UL62368

Environmental

RoHS-2.0 compliant
Electrical and Electronic Equipment (WEEE Directive 2002/96/EC)