

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

- 64 x 800 GbE QSFP-DD800 switch ports
- 2 x 25 GbE SFP28 switch ports

Key Design

- Incorporates Broadcom Tomahawk 5 51.2 Tbps switch silicon
- Intel Ice Lake-D LLC CPU
- Hardware Root of Trust (ROT) and BMC

Physical

- 2RU form factor
- All ports on front; modular design for PSUs and fans
- Hot-swappable, load-sharing, redundant 1+1 PSUs
- 3+1 redundant, hot-swappable fan modules

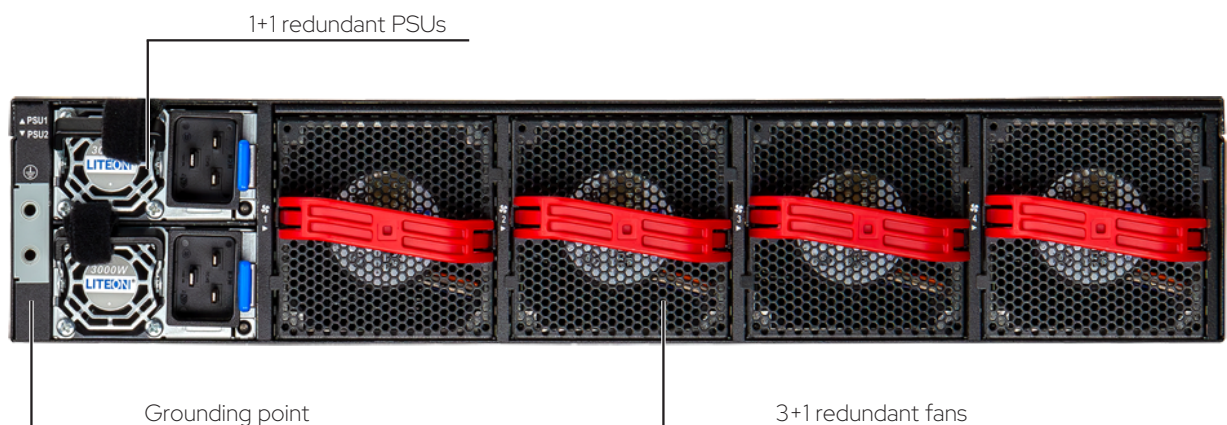
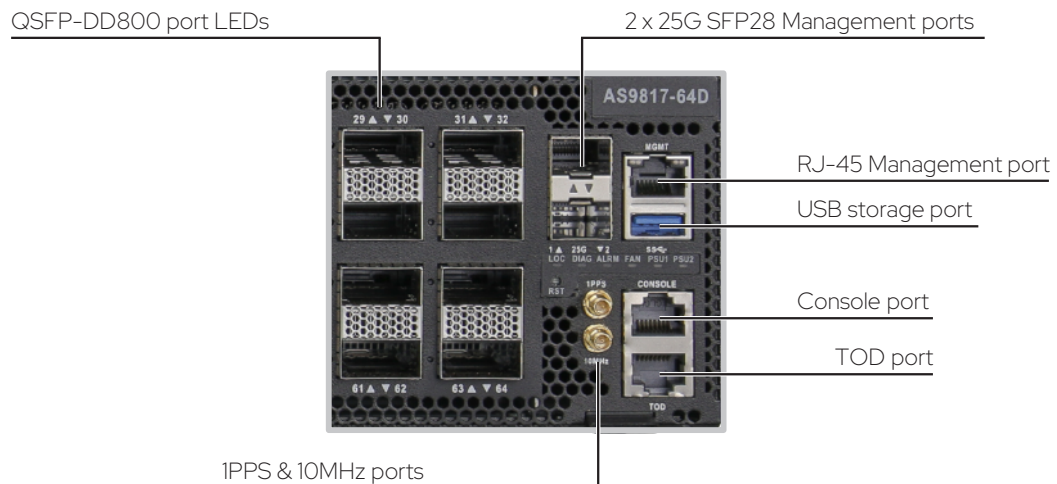
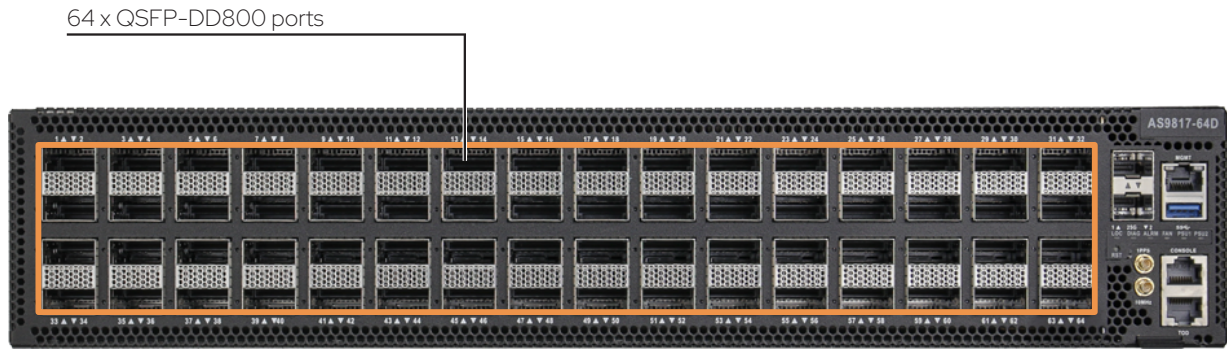
Software

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

Applications

- Data center spine, leaf, ToR switch
- Enterprise backbone/core switch
- Ethernet fabric for AI/ML cluster
- High power optics/ports support for DCI
- Large radix system for aggregation networks

Overview



A landscape photograph showing a single tree with orange-brown leaves on a grassy hill under a clear blue sky, positioned at the top left of the page.

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 port
1 x USB 3.0

Key Components

Switch Silicon: Broadcom Tomahawk 5 (BCM78900) 51.2 Tbs
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
ROT: AST1060

Timing and synchronization

Supports IEEE 1588 PTP and Synchronous Ethernet
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

Cooling

Front-to-back airflow (0°C – 40°C)
Back-to-front airflow (0°C – 35°C)*
*Subject to optics deployed.

Power Supply

PSUs: 2 redundant, load-sharing, hot-swappable 3000 W AC/DC PSUs
AC PSU:
AC input rating:
200-240 VAC at 50-60Hz (16 A/3000 W max.)
AC PSU Inlet: IEC 60320 C20
DC PSU:
DC Input rating: -48 V ~ -60 V (80 A/3000 W max.)

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)



Ordering Information

AC SKUs. Front-to-Back Airflow.

Model Number	Part Number	PSU	Airflow	Power Cord
AS9817-64D-SCM-AC-F-US	FP6ZZ9664403A	Dual AC PSUs	Front to Back	US
AS9817-64D-SCM-AC-F-EU	FP6ZZ9664202A	Dual AC PSUs	Front to Back	EU
AS9817-64D-SCM-AC-F-UK	FP6ZZ9664302A	Dual AC PSUs	Front to Back	UK
AS9817-64D-SCM-AC-F-JP	FP6ZZ9664502A	Dual AC PSUs	Front to Back	JP

AC SKUs. Back-to-Front Airflow.

Model Number	Part Number	PSU	Airflow	Power Cord
AS9817-64D-SCM-AC-B-US	FP6ZZ9664405A	Dual AC PSUs	Back to Front	US
AS9817-64D-SCM-AC-B-EU	FP6ZZ9664204A	Dual AC PSUs	Back to Front	EU
AS9817-64D-SCM-AC-B-UK	FP6ZZ9664304A	Dual AC PSUs	Back to Front	UK
AS9817-64D-SCM-AC-B-JP	FP6ZZ9664504A	Dual AC PSUs	Back to Front	JP

DC SKU. Front-to-Back Airflow

Model Number	Part Number	PSU	Airflow	Power Cord
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S9817-64D-SCM-DC-F	FP6ZZ9664011A	Dual DC PSUs	Front to Back	NA
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PSU FRUs (No Power Cord is Included)

Model Number	Part Number	PSU	Airflow
PSU-AC-3000W-F	FOOZZ9664001A	AC	Front-to-Back
PSU-AC-3000W-B	FOOZZ9664003A	AC	Back-to-Front
PSU-DC-3000W-F	FOOZZ9664004A	DC	Front-to-Back
PSU-DC-3000W-B	FOOZZ9664005A	DC	Back-to-Front

Fan FRUs

Model Number	Part Number	Airflow
FAN-2U-1x1F-B	FOOZZ9664002A	Front-to-Back
FAN-2U-1x1B-F	NA	Back-to-Front

Rack-Mount Kit

Model Number	Part Number	Description
RKIT-2RU-SLIDE	FOTZZ9664002A	Rail Kit
RKIT-2RU-RSLIDE	FOTZZ9664001A	Reversed Rail Kit