

800G DATA CENTER SWITCH

AS9817-32D

The Accton AS9817-32D is an 800G high-performance switch platform for modern data center applications. The switch provides line-rate L2 and L3 switching across the 32 x 800 GbE QSFP-DD ports, each supporting 2 x 400 GbE, 4 x 200 GbE, or 8 x 100 GbE via breakout cables. The AS9817-32D 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

- 32 x 800 GbE QSFP-DD switch ports
- 2 x 25 GbE SFP28 switch ports

Key Design

- Incorporates Broadcom Tomahawk 5 25.6 Tbps switch silicon
- Intel Ice Lake-D LLC CPU
- Hardware Root of Trust (ROT) and BMC

Physical

- 1RU form factor
- All ports on front; modular design for PSUs and fans
- Hot-swappable, load-sharing, redundant 1+1 PSUs
- 6+1 redundant, hot-swappable fan modules

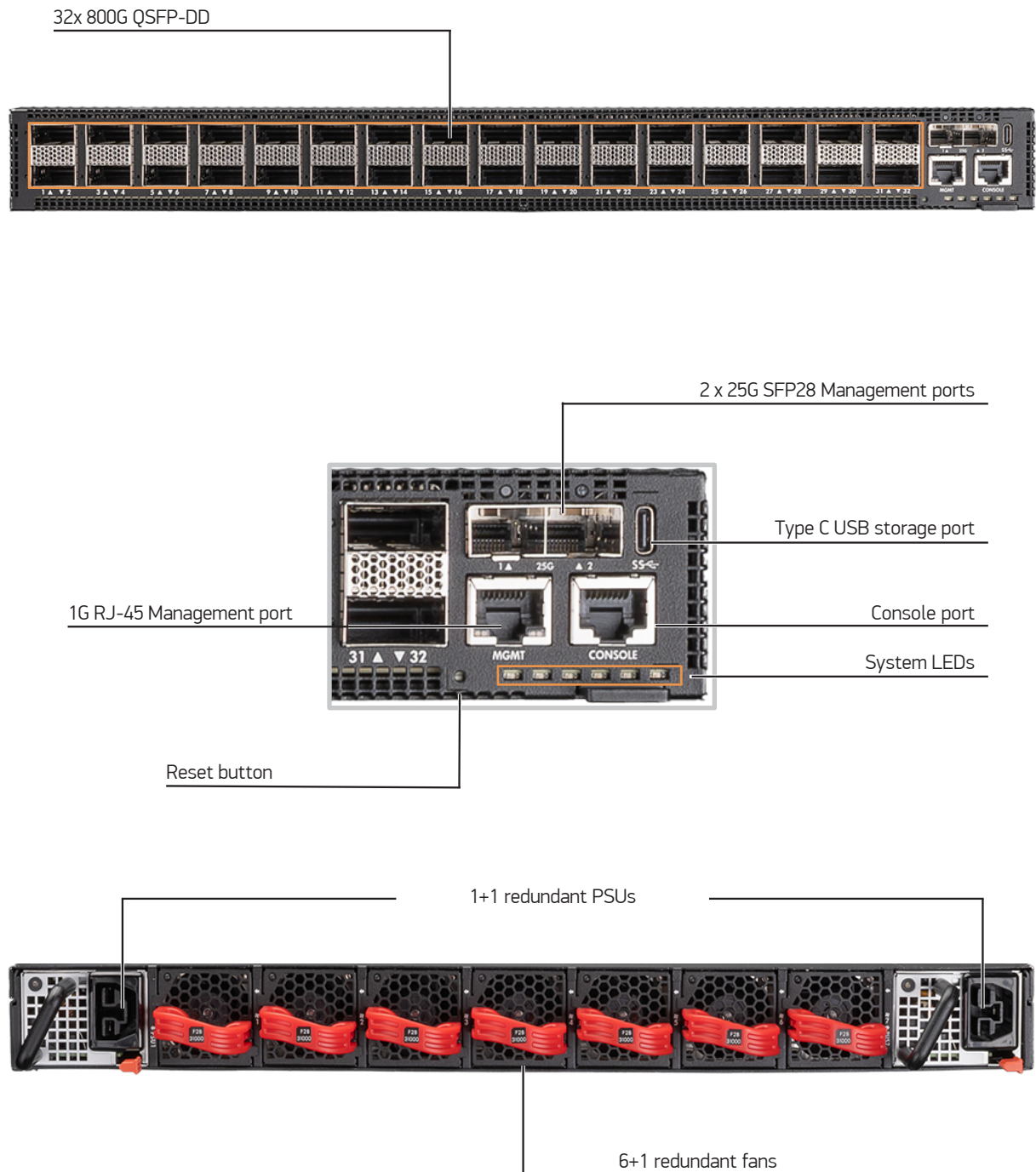
Software

- 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 image 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

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

Key Components

Switch Silicon: Broadcom Tomahawk 5 25.6 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
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 44 mm
Weight :14.53 kg (32.03 lb)
Fans: Hot-swappable 6 + 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)

Power Supply

PSUs: 2 redundant, load-sharing, hot-swappable 2400 W AC/DC PSUs
AC PSU:
AC input rating: 200-240 VAC, 50/60Hz, 15 A max.
DC PSU:
DC input rating : -48 – -60 VDC, 53 A max.-48 – -60 VDC, 53 A max.

Regulatory

EMI

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

Safety

CB EN60950, UL60950 EN62368, UL62368

Environmental Parameters

Operating Temperature: 0°C – 40°C (32°F – 104°F) @ 6000 ft
Operating Humidity: 5% – 95% non-condensing
RoHS-2.0 compliant
Electrical and Electronic Equipment (WEEE Directive 2002/96/EC)



Ordering Information

AC SKUs. Front-to-Back Airflow			
Customer Model Number	Part Number	Airflow	Power Cord
AS9817-32D-O-AC-F-EU	FP6ZZ9632201A	Front-to-Back	EU
AS9817-32D-O-AC-F-UK	FP6ZZ9632301A	Front-to-Back	UK
AS9817-32D-O-AC-F-US	FP6ZZ9632401A	Front-to-Back	US
AS9817-32D-O-AC-F-JP	FP6ZZ9632501A	Front-to-Back	JP
DC SKUs.			
Customer Model Number	Part Number	Airflow	Power Cord
AS9817-32D-O-48V-F	FP6ZZ9632014A	Front-to-Back	N/A