# 800G DATA CENTER SWITCH
## AS9817-64O

The Accton AS9817-64O 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 OSFP800 ports, each supporting 2 x 400 GbE , 4 x 200 GbE, or 8 x 100 GbE via breakout cables. The AS9817-64O 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 OSFP800 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
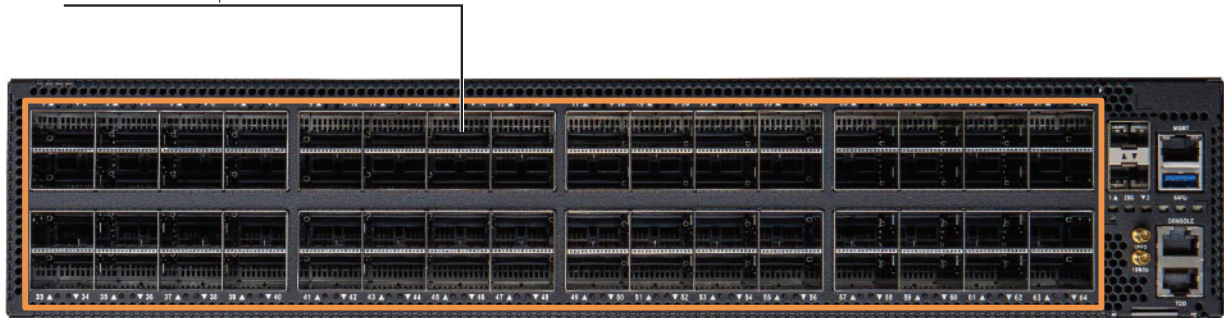- 3+1 redundant, hot-swappable fan modules

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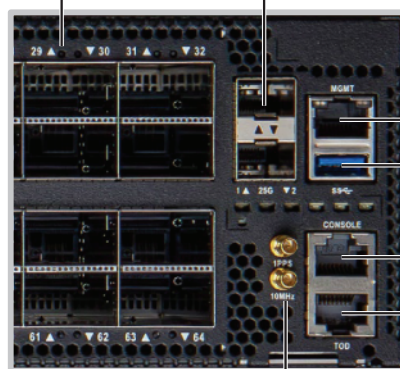
# Overview

64 x OSFP800 ports



OSFP800 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 OSFP800 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)

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