



128x400G DATA CENTER SWITCH

DCS8500-128D

The Accton DCS8500-128D is a high-density, high-performance switch platform for modern data center applications. The switch provides line-rate L2 and L3 switching across its 128 x 400 GbE QSFP112 ports, each supporting 2 x 200 GbE or 4 x 100 GbE via breakout cables. The DCS8500-128D can be deployed in a spine-leaf network architecture to greatly improve network bandwidth and simplify the topology, making it easier to build a high-capacity, low-latency, non-blocking switching network with lower power consumption and reduced cost.

This open 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
- 128 x 400 GbE switch ports supporting QSFP112 (backward compatible with QSFP56 and QSFP28)

Components

- Incorporates Broadcom Tomahawk 5 51.2 Tbps switch silicon
- Intel Ice Lake-D D1734NT CPU with BMC

Physical

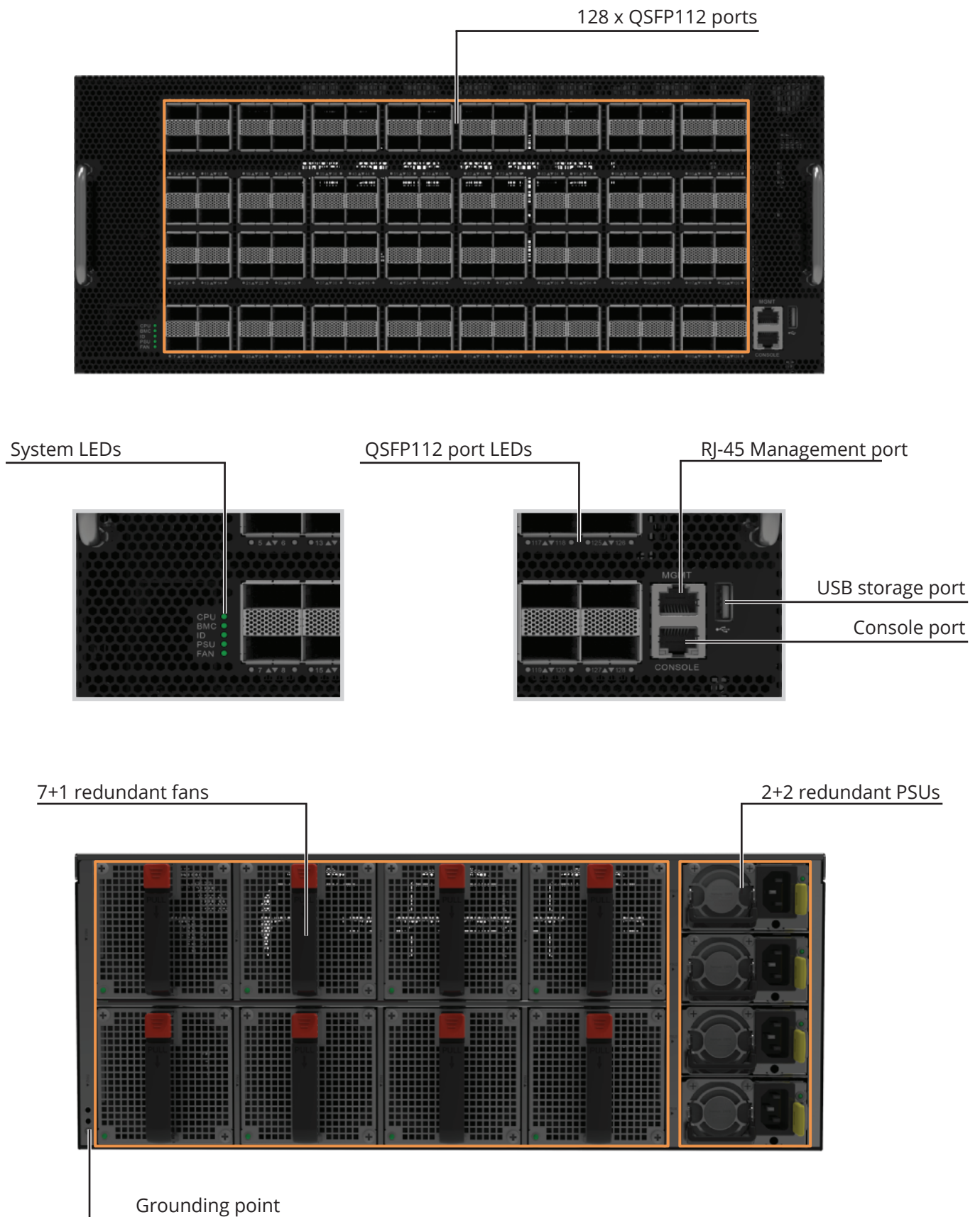
- 4RU form factor, can be installed in a standard 19-inch rack
- Supports front-to-back airflow cooling
- All ports on front; PSUs and fans accessible from rear
- Hot-swappable, load-sharing, redundant 2+2 PSUs
- 7+1 redundant, hot-swappable fan modules

Software

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



Overview





Hardware Specifications

Ports

128 x 400G QSFP112 ports
1 x RJ-45 UART RS232 console port
1 x RJ-45 out-of-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 D1734NT Processor
Memory: 8GB x 2 DDR4 SO-DIMM
Storage: M.2 240G NVMe SSD
BMC: AST2600

Physical and Environmental

Dimensions (WxDxH): 440 mm x 800 mm x 175 mm (4RU)
Fans: Hot-swappable 7 + 1 redundant fans
Operating Temperature: 0°C - 40°C (32°F - 104°F)
Storage Temperature: -40°C - 70°C (-40°F - 158°F)
Operating Humidity: 5% - 95% non-condensing

Software

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

Power Supply

2000W PSUs. Front-to-back airflow (AC to DC), 2+2 redundant 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)