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FS N8520-32D 32 Port Ethernet Data Center Switch



Technical Specification

N8520-32C bare metal switch comes with the industry-standard hardware. Here’s a look at the details.

CHARACTERISTICS

	N8520-32C
Port	
Ports	32x 100G QSFP28
QSFP28 ports	Each Port supports 1x 40/100 GbE or 2x 50 GbE or 4x 10/25 GbE per port using splitter cables
RJ45 Management Port	1
Console Port	1
USB Type A Storage Port	1
Operating System	
OS	ONIE (Bare Metal Switch)

Key Components	
Switch Chip	Broadcom BCM56960 Tomahawk
CPU	Intel Atom C2538 quad-core 2.4 GHz x86 processor
DRAM	16GB SO-DIMM DDR3 RAM
SPI Flash	16MB
mSATA SSD	64GB MLC
Performance	
Layer Type	Layer 3
Switching Capacity	6.4 Tbps full duplex
Forwarding Rate	4.7 Bpps

	N8520-32C
MAC Addresses	8K min./136K max.
Packet Buffer	16MB integrated packet buffer
VLAN IDs	4K
Jumbo Frames	Up to 9216 Bytes
IPv4	8K min./72K max. host entries
IPv6	4K /36K max. host entries
Status Indicators	
QSFP 28 Port LEDs	Link Status, Activity, Rate
Ethernet Management Port LED	Link Status, Activity

Console Port LED	Link Status
System LEDs	Diagnostic, Locator, PSU and Fan Status
Power	
Input Voltage	100-240VAC, 50-60Hz, 6A max.
Max. Power Consumption	550W
PSU Efficiency	Up to 93% for AC PSUs
Physical and Environmental	
Dimensions (HxWxD)	1.71"x17.26"x20.28" (43.5x438.4x515mm)
Rack Space	1U

Hot-swappable Power Supplies	2 (1+1 Redundancy)
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	N8520-32C
Hot-swappable Fans	6 (5+1 Redundancy)
Airflow	Back-to-Front
Operating Temperature	32°F to 104°F (0° to 40°C)
Storage Temperature	-40°F to 158°F (-40°C to 70°C)
Operating Humidity	5% to 95% (Non-condensing)
Weight	23.96 lbs (10.87kg), with two installed PSUs
Warranty	

Warranty	5 Years (Hardware)
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IDEAL FOR DATA CENTER NETWORKS AND HIGH-END CAMPUS NETWORKS

N8520-32C bare metal switch is designed for data center networks and high-end campus networks, providing stable, reliable and secure Layer 2/Layer 3 switching services.

Overview

N8520-32C is a Top-of-Rack (TOR) or spine switch for high-performance data centers. In a compact 1RU form factor, it supports up to 32x 40/100G, 64x 50G, or 128x 10/25G connections.

Loaded with the Open Network Install Environment (ONIE), N8520-32C supports the installation of compatible Network Operating System software, which includes the open source options Open Network Linux and SONiC, plus commercial NOS offerings.

COMPATIBLE OPERATING SYSTEM

- Big-Switch-BMF
- Big-Switch-BCF
- Cumulus – Cumulus®Linux®
- SONiC
- Pica8 – PICOS®
- Pluribus Netvisor ONE

Key Features and Benefits

Product Highlights

- Cost-effective, bare-metal switch infrastructure for data center fabric.
- Deploy as a Top-of-Rack switch supporting 10 or 25G to servers, with 40 or 50 or 100G uplinks.
- Deploy as spine switch supporting 40, 50, or 100G ToR and spine interconnects.
- 32x QSFP28 switch ports, each supporting 1x 100G or 1x 40G, or via breakout

cables, 2x 50G or 4x 25G or 4x 10G.

- Layer 2 or Layer 3 forwarding of 6.4 Tbps (full duplex).
- All ports on front; PSUs and fans accessible from rear.

Power Supply and Fan Modules

- 1+1 hot-swappable, load-sharing, redundant AC power supply units.
- 5+1 hot-swappable, redundant fan modules.
- Energy Efficiency

Software

- Bare-Metal hardware switch pre-loaded with diagnostics software and with Open Network Install Environment (ONIE) for automated loading of compatible open source and commercial NOS offerings.
- Compatible with Open Network Linux (ONL), an open-source, OCP reference NOS.
- Compatible with future release of Big Monitoring Fabric 5.6.0 and Big Cloud Fabric and later versions from Big Switch Networks. Compatible with Cumulus® Linux® r4.2.0 and before versions from Cumulus Networks®.
- Compatible with SONiC open source network software.
- Compatible with PicOS™ 2.7.1 and later versions from Pica8 Inc.
- Compatible with OcNOS™ 1.2 and later versions from IP Infusion.
- Compatible with SnapRoute CN-NOS, Cloud Native – NOS software.
- Compatible with Ixia Vision Edge OS™ 4.7.3 and later.
- Compatible with Infinera CNOS.
- Compatible with Netvisor ONE Network operating system from Pluribus Networks.
- Compatible with ArcOS 3.3.1 and later versions.
- Compatible with Netscout, CGS, and Altran/Aricent.

Accessories



Console Cable*1



Power Cords*2



Rack Mount Kit Bracket*1



M4 Screws*20



Ear-locking Screws*2



User Manual*1

- <https://www.fs.com>

The information in this document is subject to change without notice. FS has made all efforts to ensure the accuracy of the information, but all information in this document does not constitute any kind of warranty.

FCC STATEMENT

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions:

1. This device may not cause harmful interference, and
2. This device must accept any interference received, including interference that may cause undesired operation.

Any Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

- **Note:** This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment.

This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used according to the instructions manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference, in which case the user will be required to correct the

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