High-Density 400G Switching for Modern Data Centers

SND9520

The SND9520 is a 1U 400G data center switch built around Marvell Teralynx® 7, delivering 12.8 Tbps switching capacity and 32 x 400G QSFP-DD ports. With redundant 1600W CRPS, modular cooling, OOB management, ONIE support and a compact 1U design, it targets high-density data center and AI/HPC networking.

ASIC
Marvell Teralynx® 7 switching technology delivers up to 12.8 Tbps switching capacity for high-density data center networking

Power
Redundant 1+1 1600W CRPS power architecture supports high availability

400G Ports
32 x 400G QSFP-DD ports provide high-bandwidth connectivity for spine, leaf and AI/HPC network architectures

Cooling
Six modularized fan modules provide cooling and serviceability in high-density rack environments

Management
Dedicated out-of-band management, console and USB interfaces simplify provisioning and maintenance

Open Networking
Hardware switch pre-loaded with Open Network Install Environment (ONIE)

Memory
Up to 128 GB DDR4 ECC system memory for control-plane and management functions

Low Latency
Designed for line-rate, low-latency switching to support demanding east-west traffic in modern data centers

Storage
128 GB M.2 storage provides local capacity for NOS images, logs and system data

Technical Specifications

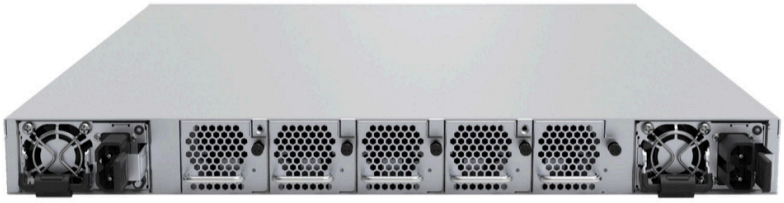
Data Center Switch	
Model Name	1U 400G Data Center Switch
Model Number	SND9520
Network Interfaces	32 x 400G QSFP-DD
I/O / Management	Console: Mini USB OOB: 1 x GbE RJ45 USB: 1 x USB 3.0 Type-A
Switching Capacity	12.8 Tbps
Management	Aspeed AST2600 (Edge SCM, Edge Secure Control Module)
Software	Hardware switch pre-loaded with Open Network Install Environment (ONIE)
Switching Silicon	Marvell Teralynx® 7
CPU / Processor	Intel® Xeon® Processor Ice Lake-D SoC
Memory	4 x 16 GB DDR4 ECC SO-DIMM; up to 128 GB
Storage	128 GB M.2 SSD
TPM	TPM 2.0
Power	1+1 Redundant 1600W AC/DC CRPS
Cooling	Air Cooling, 6 modularized fan modules
Environmental	Operating Temperature: 0–40°C Operating humidity: 5–95% RH, non-condensing
Mechanical (W x D x H)	440 x 515 x 44 mm; 15 kg
Applications	Data center spine; carrier core; AI / HPC

Hardware Overview

SND9520 (1U 400G Data Center Switch)

Front View

Rear View



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