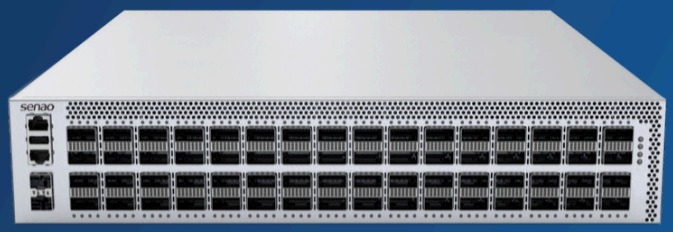
Powering the Next Generation of 800G AI & HPC Fabrics

SND9820

The SND9820 is positioned as a next-generation 800G Ethernet platform based on Marvell Teralynx® 10. With 64 x 800G OSFP ports and 51.2 Tbps switching capacity, it is designed for high-bandwidth AI/ML clusters, HPC environments and hyperscale data center fabrics.



ASIC

Based on Marvell Teralynx® 10 switching technology for next-generation high-bandwidth Ethernet fabrics

Switching Capacity

Delivers 51.2 Tbps switching capacity for rapidly increasing AI, ML and HPC bandwidth requirements

800G Ports

Provides 64 x 800G OSFP ports for extremely high-density connectivity across large-scale data center fabrics

Scalability

800G Ethernet connectivity supports scalable architectures for AI and machine learning clusters

Open Networking

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

Low Latency

Designed for high-throughput, low-latency networking associated with distributed AI training and HPC workloads

Applications

Target applications include AI/ML clusters, HPC environments and hyperscale data centers

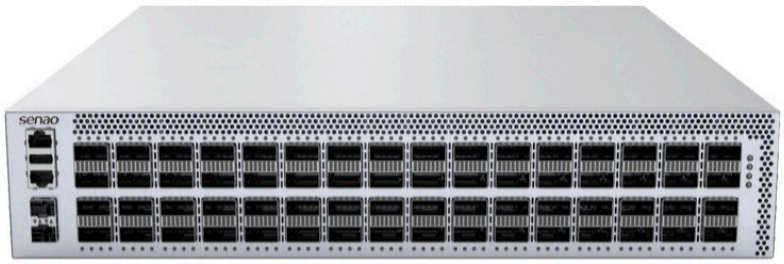
Technical Specifications

Data Center Switch	
Model Name	800G Data Center Switch
Model Number	SND9820
Network Interfaces	64 x 800G OSFP
I/O / Management	Console: RJ45 RS232 OOB: 1 x GbE RJ45
Switching Capacity	51.2 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® 10
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 3200W AC/DC CRPS
Applications	AI / ML clusters; HPC; hyperscale data centers

Hardware Overview

SND9820 (800G Data Center Switch)

Front View



Senao Networks

Product specifications, configurations, certifications, and availability are subject to change without notice and may vary by region and customer program. Final commitments are governed by the applicable quotation, statement of work, or executed agreement.