

## Nordic manufacturer s 800G AI server



### AI Overview

The 800G AI server leverages high-bandwidth 800G Ethernet, low-latency switching, and advanced 800V power architectures to support large-scale AI workloads efficiently. Networking and Performance Modern 800G AI servers are designed to handle massive AI datasets and high-performance computing (HPC) workloads. They utilize 800G Ethernet, which doubles the throughput of 400G Ethernet, providing 800 Gbps per port through eight parallel lanes at 100 Gbps each, with advanced Forward Error Correction (FEC) and Media Access Control (MAC) for reliable, low-latency transmission. This enables seamless data movement across GPU clusters, reducing AI training iteration times and alleviating network bottlenecks in hyperscale data centers. Some 800G AI switches, like Asterfusion's CX-N series, offer 64 x 800G ports with total switching capacities up to 51.2 Tbps and port-to-port latencies as low as ~400 ns, ideal for latency-sensitive AI workloads. Power Architecture High-performance AI servers require robust power delivery. Infineon Technologies, in collaboration with NVIDIA, is pioneering 800V high-voltage direct current (HVDC) architectures for AI data centers. This centralized power system reduces losses, improves efficiency, and allows direct power conversion at the GPU, supporting racks with power outputs exceeding 1 MW per IT rack before 2030. The architecture uses advanced semiconductor materials like silicon carbide (SiC) and gallium nitride (GaN) to accelerate development cycles and ensure reliability. Modular and serviceable designs minimize downtime, which is critical for AI workloads requiring continuous operation. Key Features High Bandwidth: 800G Ethernet for massive data throughput and scalable AI clusters. Low Latency: Sub-microsecond switching latency (~400-560 ns) for real-time AI processing. High Power Efficiency: 800V HVDC architecture reduces energy losses and supports high-density GPU racks. Scalability: Modular design allows expansion to meet growing AI compute demands. Advanced Network...

## Article Content

How the Nordics Built a Sustainable Blueprint for A.I. Data Centers ...

The Nordic Blueprint for Building A.I. Infrastructure at Scale As hyperscalers race to build A.I. capacity, the Nordics offer a proven model for resilience, efficiency and sustainability.

Why do AI Data Centers Need 800G Optical Modules?

AI applications and large models have made computing power a key infrastructure for the AI industry. As the need for faster communication increases, high-speed optical modules have

560ns Ultra-Low Latency: Asterfusion's 800G AI Switch Architecture In ...

So now, let's lift the curtain and take a deep dive into this groundbreaking switch — exploring its internal structure and engineering brilliance, and discovering how it redefines the 800G

800G Data Center Switches

The S9320-32ED 800G Data Center Switch offers 8x 800GE & 24x 400GE ports, advanced AI/ML traffic control, and 16 Tbps capacity, ideal for high-performance computing.

Nordic B2B ecommerce companies accelerate AI adoption

The Nordic Digital Commerce in B2B 2025 report, based on interviews with 920 decision-makers in manufacturing, distribution, and wholesale, found that 24% of companies are already using

AI Data Center Network Architecture Requirements: 400/800G

AI Data Center Network Architecture Requirements: 400/800G Optical Transceivers  
With the continuous development of AI technology and related applications, the importance of large

Edgecore Networks Launches AI Server AGS8200, Unveils Innovative

Edgecore presents its state-of-the-art 800G Ethernet switching solution tailored for AI/ML — the 800G AI data center networking switches AIS800 series. The switch ports are equipped with

H3C's Core Liquid Cooling Breakthrough: Redefining 800G Switch ...

Building on its S9827 series 800G switch platform, which already incorporates liquid cooling design and has been validated through large-scale deployments, H3C has refined liquid

FiberMall Announces Volume Shipments of 400G/800G AI Optical

FiberMall, a provider of optical networking solutions, announced that the company has initiated mass production and volume shipments of its 400G and 800G optical transceivers. These

Luxshare speeds into AI server market with 800G SiPh, liquid cooling ...

Luxshare Precision Industry Co., a major Chinese electronics manufacturer, is fast-tracking its expansion into the AI server supply chain. On November 11, 2025, the company

ChatForest — AI agents reviewing AI tools. Honestly.

ChatForest is an AI-native publication covering the MCP ecosystem and AI tools. Reviews, guides, and analysis from the agents who actually use them.

FS 400G/800G Open Networking Switch for Scalable AI and Multi

FS 400G/800G open networking switches provide scalable, programmable solutions for AI clusters and multi-tenant data center networks.

Tai-Saw enters AI server and GPU module supply

With 400G shipments already underway and 800G mass production targeted for late 2026, the move carries implications for data center upgrade

6G AI Sweden | Your AI Factory in Sweden

World-class AI cloud infrastructure powered by NVIDIA H200 GPUs. Sovereign, sustainable AI compute in Stockholm, Sweden. GDPR compliant, ISO 27001 certified.

New Celestica 800G Switches Powering AI and Advancing Data

Celestica's 800G Family of Network Switches support cutting-edge Artificial Intelligence (AI), Machine Learning (ML) and high-performance computing requirements, delivering high-density

Top 3 AI Data Center Challenges at 800G / 1.6T — and How to Solve

Scaling AI infrastructure comes with high financial and technical stakes. Learn how Keysight helps organizations reduce risk, accelerate deployment, and maximize return on AI

Edgecore Networks Showcases Comprehensive End-to-End AI Data

The Edgecore end-to-end AI data center solutions: Rich Ecosystem and Vendor-Agnostic: SONiC's rich ecosystem supports broad compatibility with the industry's most popular

400G to 800G Upgrade: The Complete AI Data Center Guide

A comprehensive guide to upgrading your AI data center infrastructure from 400G to 800G networking — covering technical specifications, business ROI, phased migration strategy,

AI Data Center Upgrades 2025: Best 400G & 800G Solutions | Vitex

Plan AI data center upgrades for 2025. Expert guide to selecting the best 400G and 800G optical transceivers, cables, and network solutions for AI infrastructure.

AI Infrastructure | Leading supplier in Scandinavia | Aixia

Scandinavia's leading AI partner. Discover how we can help you realize your AI ambitions with the help of our sharp minds. As Scandinavia's leading provider of advanced AI infrastructure solutions, we

Revolutionizing AI/ML: Edgecore's AGS8200 & Intel®

With the introduction of the AGS8200, Edgecore Networks has now completed its comprehensive suite of open networking solutions, ranging from

Powerful AI Switch for High-Performance Networks

Modern operators demand a high-performance and resilient network infrastructure to effectively support AI/ML solutions while ensuring cost efficiency that aligns with

Powering 400G/800G AI Networking

To meet the demanding performance requirements of AI/ML back-end cluster networks, advanced capabilities beyond those of traditional designs are essential. Broadcom and Arista

Arista 7060X6 Series

The 800G Arista 7060X6 switch series are an integral component of the Arista AI Etherlink portfolio, and are optimized to meet the throughput, scale and performance demands of the rapidly evolving

Tai-Saw enters AI server and GPU module supply chains, eyes 800G

Tai-Saw Technology's differential oscillators are entering GPU module and AI server supply chains, potentially reshaping global networking hardware availability. With 400G shipments

Redefining power infrastructure for AI: the role of 800

The rapid expansion of AI applications is driving server rack power demands into the megawatt range, placing unprecedented strain on traditional

Infraeo 800G & 1.6T for NVIDIA ConnectX-8 | AI Connectivity

Explore Infraeo's copper and optical Interconnects for NVIDIA ConnectX-8. Support for 800G, 1.6T, OSFP-RHS, QSFP112, InfiniBand, and Ethernet deployments.

## AI Infrastructure | Leading supplier in Scandinavia | Aixia

Aixia offers customized AI infrastructure solutions, including GPU servers, storage and networking. As well as advice and support throughout the entire process from design to implementation, adapted to

## Celestica's 800G Edge: From Home Wi-Fi to AI Data Centers

In those massive server farms, thousands of AI servers and GPUs have to talk to each other at lightning speeds. This is where 800 Gbps switches come in, and it's a big reason I remain

## Top Five AI Server Companies for Data Centers and

This ABI Research competitive assessment ranks the top five AI server companies worldwide.

## Contact Us

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