

800G Industrial Switches for Data Centers



Overview

The fastest commercially available Ethernet switch speed in 2024 is 1.6 Terabits per second (Tbps) per port, with leading vendors like Cisco, Arista, and NVIDIA offering 800GbE and emerging 1.6TbE switches for AI/ML and hyperscale data centers. Traditional 400G Ethernet is increasingly inadequate for handling massive workloads efficiently. 800G Ethernet emerges as the next-generation networking technology, delivering unparalleled bandwidth, improved energy efficiency, and scalable architecture to meet the demands of AI, cloud computing. The Edgecore AIS800-64D / DCS560 is a high-performance, low-latency switch ideal for data centers, AI/ML clusters, and high-performance computing. The DS5000 delivers unparalleled high-density and high-performance solutions tailored to address evolving data center networking demands now and into the future. It is designed to meet the growing demands for higher bandwidth and faster. NVIDIA's Mellanox 800G Ethernet switch series represents a comprehensive solution designed specifically to address the challenges of modern cloud and AI infrastructure.

Article Content

The Rise of 800G Ethernet: FS 800G AI Switches for

Discover 800G Ethernet technology and FS 800G AI switches, delivering ultra-high bandwidth, low latency, and lossless performance for AI/ML

Data Center Switch

Celestica's 800G Family of Network Switches are purpose-built to support cutting-edge AI/ML and HPC requirements. The DS5000 delivers unparalleled high-density and high-performance solutions

800G Data Center Switches

The Edgecore AIS800-64D / DCS560 is a high-performance, low-latency switch ideal for data centers, AI/ML clusters, and high-performance computing. It features 64x QSFP-DD800 ports and offers

Extreme Networks: Wi-Fi 7, Ruggedized Switches, and Fabric Updates

At its in-house trade fair, Extreme Networks is presenting new Wi-Fi 7 access points, ruggedized switches, and fabric updates for industrial networks.

Modular Chassis Switch Market Size, Share & 2031 Growth Trends

Hyperscale Data-Center Migration To 400G/800G Architectures The rapid increase in east-west traffic driven by AI training clusters is accelerating the adoption of 400G and 800G modular

Optical Transceiver Market Size, Share, Industry Report

Industrial cloud deployments and edge data center growth supporting Industry 4.0 initiatives further drive adoption of high-speed 100G to 800G optical modules.

Next-Generation Connectivity: The Rise of 800G OSFP 2*FR4 Optical ...

Discover the details of Next-Generation Connectivity: The Rise of 800G OSFP 2*FR4 Optical Transceivers in AI Data Centers at LonRise Equipment Co. Ltd., a leading supplier in China

Global 400G and 800G Switches Market Research Report 2026

Switches are the information terminals of major companies. With the development of the Internet and the continuous upgrading of data centers, 400G and 800G switches have become the latest trend in

Breaking New Frontiers in AI Infrastructure: The Launch of the TS

1. Summary The TS-OPO8-858H-01C-V 800G OSFP VR8 MPO optical transceiver represents a pivotal shift in high-density data center interconnectivity, specifically engineered to

800G Ethernet AI Data Center Switches

It can be used with large amounts of copper cable to interconnect switch to switch, saving overall costs. It is designed to meet the growing demands for higher bandwidth and faster data transmission

\$SITM KEY READ-THROUGHS FROM SITIME Q1 2026 EARNINGS

The most investable read-through is that inference, 1.6T optical modules, data center switching, SmartNICs, accelerator platforms, and future co-packaged optics are increasing precision

Cisco Optics | Transform Your Network

Connect data center switches and routers with dark fiber using industry-standard 400G coherent pluggable optics.

Advanced Connectivity: The Evolution of 800G QSFP-DD DR8 MPO ...

Discover the details of Advanced Connectivity: The Evolution of 800G QSFP-DD DR8 MPO Transceiver Modules in AI Data Centers at LonRise Equipment Co. Ltd., a leading supplier in China

800GbE Switch 64x 800G OSFP 51.2Tbps Enterprise

Delivering a massive 51.2 Tbps switching capacity and featuring 64x800G ports, it scales effortlessly to support ultra-large data centers with performance rivaling

THE PHOTONICS ROTATION Almost nobody is watching photonics.

6. \$AVGO sits at the center of AI networking through switching, custom silicon, and optical interconnect demand. 7. \$ANET is the Ethernet backbone moving massive AI workloads

Cloud Data Centers

Cloud Data Centers Offering full range of open network switches from 1G, 10G, 25G, 100 to 800G Edgecore delivers advanced networking solutions with flexible switch hardware options and SONiC

400G/800G Data Center Switches | High Speed Ethernet Switch for AI

Empower AI data centers with 400G & 800G ethernet switches from Cisco Nexus, Huawei & Arista. All models are available from our global stock. Talk to our experts.

Cloud Data Center Upgrade Solution: Application of Mellanox 800G

Transform your cloud data center with Mellanox 800G switches. Our solution delivers 4x bandwidth, 40% higher GPU utilization, and 62% better power efficiency for AI and HPC workloads.

800G Silicon Photonic Switches: Revolutionizing AIGC

It is suitable for business scenarios such as AIGC clusters or high-performance core switching of data centers, helping to release the ultimate

400G vs 800G Ethernet in 2026: Data Center Trends

A practical 2026 guide to 800G Ethernet adoption: spine-leaf design, congestion control, observability, optics and fiber planning, and how to upgrade.

Optical Switches Market Size | Share Analysis Report,

The optical switches market was estimated at USD 7.6 billion in 2025 and is expected to grow at a CAGR of 12.6% between 2026 and 2035, due to

Contact Us

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