

Inquire about 800G aggregation switch



Article Overview

800G aggregation switches deliver ultra-high bandwidth, low-latency, and scalable connectivity for modern data centers and AI/ML workloads.

Key Features and Capabilities

Cisco N9364E-SG2

- Form Factor: 2RU, 64-port switch supporting QSFP-DD and OSFP interfaces
 - Bandwidth: 51.2 Tbps with 256MB on-die packet buffer
 - Port Speeds: 800G native, with support for 400G, 200G, and 100G
 - Technology: Cisco Silicon One ASIC, supporting next-generation cloud and AI/ML fabrics
 - Software: Cisco NX-OS with VXLAN EVPN, hierarchical multisite support, and comprehensive Layer-2/Layer-3 protocol support
 - Use Case: High-density aggregation in leaf-spine data center architectures, AI/ML network fabrics, and cloud-scale deployments
- #### Cisco N9164E-NS4-O
- Form Factor: 2RU, 64-port OSFP 800G switch
 - Bandwidth: 102.4 Tbps with 160MB on-die packet buffer
 - Technology: NVIDIA Spectrum-4 ASIC, optimized for AI networking
 - Software: NX-OS and Nexus Hyperfabric for automated, programmable network management
 - Use Case: High-performance AI/ML clusters, low-latency and congestion-managed fabrics
- #### Edgecore DCS560
- Form Factor: 2RU, 64x800G ports
 - Bandwidth: 51.2 Tbps, Broadcom StrataXGS Tomahawk 5 ASIC...

Article Content

May 28, 2026

Cisco N9364E-SG2 Switches Data Sheet

Cisco N9364E-SG2 switches introduce high-density 800G aggregation for the data center fabric. They also offer

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800G Switch Market Outlook and Strategic Insights

Discover the explosive growth potential of the 800G switch market. This in-depth analysis reveals key drivers, trends, and

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800G DATA CENTER SWITCH

The Accton AS9817-64D is an 800G high-performance switch platform for modern data center applications. The

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Scaling Data Center Networks: From 100G to 400G/800G Switches

Explore when and how to upgrade data center networks from 100G to 400G/800G switches. Learn about architecture

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S9320-32ED

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

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800G Ethernet Explained: Standards, Benefits & Use Cases

Learn what 800G Ethernet is, why it matters & how it powers AI, HPC & cloud data centers. Explore standards, benefits

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In-Depth Analysis Report on 800G Switches | FiberMall

IEEE 802.3df serves as the cornerstone for current 800G deployments. It specifies the use of 8 parallel lanes, each

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800G Solutions

For the most demanding environments, the 800G routing and switching platforms provide flexibility and choice for large scale cloud,

Nov 22, 2025

800G AGGREGATION ROUTER

800G AGGREGATION ROUTER AS5916-54XKS 48 x 10G SFP+, 6 x 100G QSFP28 with Qumran MX. Carrier access / aggregation

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400G & 800G Solutions | HPE Juniper Networking US

Explore Juniper's 400G and 800G routing and switching portfolio, offering the industry's most comprehensive and high-performing

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400/800G Bare Metal Switches

FS 400/800G bare metal switches offer high speeds and port densities to meet the network deployment requirements of various

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How to Choose a Next-Gen 400/800G Switch for AI Data Center

This article explains the 400G/800G switch market trends and key factors to consider — such as chip type, port

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800G Data Center Interconnect Guide: DAC, AEC, AOC & Optical

Engineer's guide to 800G cables: DAC, ACC, AEC, AOC, DR8 transceivers. Distance zones, power budgets, TCO,

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Cisco 400G Data Center Networking

Transform your data center networking infrastructure with high-density 400G Cisco switches scalable to 800G. Optimized for

Sep 21, 2025

800G data center switch ports to top 400G by 2025: Dell'Oro

The availability of 800G optics and 25.6T chips has already created a demand for 800G switch ports, according to Dell'Oro.

Mar 09, 2026

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

What is the necessity of upgrading to 400G/800G high-speed rates for Ethernet switches? Due to the rapid development of AI

May 21, 2026

Cisco N9164E-NS4-O Switch Data Sheet

The Cisco N9164E-NS4-0 switch - a high-density 800G aggregation, 64-port OSFP 800 Gigabit Ethernet fixed switch -

Dec 31, 2025

2024-010-AS9817-64O_Accton R03 20240703

The Accton AS9817-64O is an 800G high-performance switch platform for modern data center applications. The switch

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Understanding 800G Ethernet: Architecture, Standards, and Strategic ...

Comprehensive guide to 800G Ethernet deployment — technical architecture, QSFP-DD vs OSFP comparison,

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800G AGGREGATION ROUTER

Equipped with BCM15K TCAM, the switch can be deployed either as a top-of-rack switch in a data center, or as a carrier

Jan 10, 2026

QSFP-DD-800G-SR8

Switch SFP Part QSFP-DD-800G-SR8-C is in UK stock and 100% Compatible with Cisco part QSFP-DD-800G-SR8. 800GBASE

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S9620-32E 800G Open Aggregation Router

The S9620-32E rises to this challenge by providing a compact, power-optimized solution that supports 800G ports with flexible

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Embracing 400G and 800G

400G. As data centers evolve, the growth of high speed hosts at the network edge inevitably dictates the strategic direction of the

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H3C S9828 Series Data Center Switches

The switch offers up to 128-port 800G ports and 204.8Tbps (bi) forwarding capacity which enable the switch to provide high-density

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800G Solutions

Comprehensive 800G Platforms For the most demanding environments, the 800G routing and switching platforms provide flexibility

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400G and 800G Switches Strategic Insights for 2026 and Forecasts to ...

400G Switch: In-depth analysis of existing deployments, technological advancements, and market saturation trends for switches

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

FS 400G and 800G open networking switches, built on high-performance chip architectures with disaggregated

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800G to 400G Breakout: How to Scale 400G Networks with 800G

Learn how 800G breakout enables efficient 400G link aggregation. Explore PAM4 compatibility, DR8/FR4 solutions, and cost-saving

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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

Jun 20, 2026

Edgecore Announces an 800G-Optimized Switch that ...

Edgecore Networks is the leader in open networking providing a full line of open WiFi access points, packet

Contact Us

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