

Global Air-cooled RDMA-capable High-speed Ethernet Switch Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Air-cooled RDMA-capable High-speed Ethernet Switch market size is expected to reach \$ 19023 million by 2032, rising at a market growth of 8.4% CAGR during the forecast period (2026-2032).

An RDMA air-cooled high-speed switch is a high-end Ethernet switching device designed for artificial intelligence clusters, high-performance computing, cloud data centers, and large-scale storage networks. It typically adopts fan-based cooling, redundant power supplies, high-density 400G or 800G ports, low-latency switching chips, programmable forwarding capabilities, and a data-center-grade network operating system. Through mechanisms such as RoCEv2, priority flow control, explicit congestion notification, data center quantized congestion notification, dynamic load balancing, and fine-grained queue scheduling, it enables remote direct memory access capabilities over Ethernet that approach those of dedicated interconnect networks. This type of product mainly addresses bandwidth bottlenecks, congestion propagation, microburst packet loss, increased tail latency, and network scalability issues caused by GPU clusters, distributed training, parallel computing, distributed storage, and the growth of east-west traffic. Its typical forms include 1U, 2U, or 4U fixed-configuration data center switches, with port formats mainly including QSFP-DD or OSFP. It can support different speeds through optical modules, active electrical cables, passive electrical cables, or breakout connections. Its main customers include cloud service providers, AI data center operators, server system integrators, telecom operators, research computing centers, and large enterprise data centers.

The industry position of air-cooled RDMA-capable high-speed Ethernet switches is evolving from high-speed data center switching hardware into a critical interconnect

platform for artificial intelligence infrastructure. As large model training, inference clusters, distributed storage, and high-performance computing place increasingly stringent requirements on east-west traffic, end-to-end latency, and network stability, traditional Ethernet switches can no longer meet cluster efficiency requirements through port-speed upgrades alone. The core competitiveness of this product category is shifting toward RoCEv2, priority flow control, explicit congestion notification, data center quantized congestion notification, dynamic load balancing, fine-grained queue management, and network telemetry. 400G products still support a large portion of data center upgrade demand, while 800G products represent the primary direction for newly built AI clusters and high-density GPU networks. Air-cooled designs remain highly compatible with existing server rooms and mainstream data centers, enabling high-speed network expansion without a full cooling-system overhaul, and are therefore expected to retain strong market relevance in the near to medium term.

From a competitive landscape perspective, the market for air-cooled RDMA-capable high-speed Ethernet switches is not a pure hardware market. It is an integrated competition across switching silicon, system hardware, network operating systems, AI networking algorithms, optical interconnect compatibility, and system integration capabilities. International vendors have advantages in high-end data center networking ecosystems, chip platforms, operating systems, and certifications from large cloud customers, while vendors in mainland China and Taiwan are rapidly improving in system manufacturing, white-box switching, server-side integration, open networking hardware, and local data center delivery. In terms of product form, fixed 1U, 2U, and 4U switches remain mainstream, and high-density QSFP-DD and OSFP ports have become the core carriers for 400G and 800G deployments. As AI cluster scale expands, customer procurement priorities are shifting from unit device pricing to cluster network efficiency, convergence speed, link utilization, packet-loss control, automated tuning, and long-term operational visibility.

In the coming years, industry growth will be driven mainly by AI training cluster expansion, cloud data center network upgrades, telecom intelligent computing resource pools, research high-performance computing expansion, and distributed storage network refresh cycles. Because GPU servers, optical modules, and high-speed switches are typically deployed as integrated systems, switch demand will remain strongly correlated with AI infrastructure capital expenditure. Technologically, higher 800G port density, automated RoCE network configuration, optimized congestion control algorithms, mature open network operating systems, and declining optical and electrical interconnect costs will jointly support broader adoption beyond leading cloud service providers into enterprise and regional data centers. Overall, air-cooled RDMA-

capable high-speed Ethernet switches have a favorable growth outlook, but competition will increasingly depend on end-to-end networking solution capabilities rather than hardware specifications alone.

This report studies the global Air-cooled RDMA-capable High-speed Ethernet Switch production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Air-cooled RDMA-capable High-speed Ethernet Switch and provides market size (US\$ million) and Year-over-Year (YoY) Growth, considering 2025 as the base year. This report explores demand trends and competition, as well as details the characteristics of Air-cooled RDMA-capable High-speed Ethernet Switch that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Air-cooled RDMA-capable High-speed Ethernet Switch total production and demand, 2021-2032, (Units)

Global Air-cooled RDMA-capable High-speed Ethernet Switch total production value, 2021-2032, (USD Million)

Global Air-cooled RDMA-capable High-speed Ethernet Switch production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Units), (based on production site)

Global Air-cooled RDMA-capable High-speed Ethernet Switch consumption by region & country, CAGR, 2021-2032 & (Units)

U.S. VS China: Air-cooled RDMA-capable High-speed Ethernet Switch domestic production, consumption, key domestic manufacturers and share

Global Air-cooled RDMA-capable High-speed Ethernet Switch production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Units)

Global Air-cooled RDMA-capable High-speed Ethernet Switch production by Device Height Specification, production, value, CAGR, 2021-2032, (USD Million) & (Units)

Global Air-cooled RDMA-capable High-speed Ethernet Switch production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Units)

This report profiles key players in the global Air-cooled RDMA-capable High-speed Ethernet Switch market based on the following parameters - company overview, production, value, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include NVIDIA, Arista Networks, Cisco, Dell Technologies, Juniper Networks, HPE Aruba Networking,

H3C, Huawei, Ruijie Networks, IEIT Systems, etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the World Air-cooled RDMA-capable High-speed Ethernet Switch market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (Units) and average price (US\$/Unit) by manufacturer, by Device Height Specification, and by Application. Data is given for the years 2021-2032 by year with 2025 as the base year, 2026 as the estimate year, and 2027-2032 as the forecast year.

Global Air-cooled RDMA-capable High-speed Ethernet Switch Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Air-cooled RDMA-capable High-speed Ethernet Switch Market, Segmentation by Device Height Specification:

1U Switch

2U Switch

4U Switch

Others

Global Air-cooled RDMA-capable High-speed Ethernet Switch Market, Segmentation by Switching Layer:

Leaf Switch

Spine Switch

Leaf-Spine Universal Switch

Others

Global Air-cooled RDMA-capable High-speed Ethernet Switch Market, Segmentation by Maximum Port Speed:

400G Switch

800G Switch

Others

Global Air-cooled RDMA-capable High-speed Ethernet Switch Market, Segmentation by Application:

AI Cluster Interconnect

High-Performance Computing Interconnect

Cloud Computing Resource Pool Interconnect

Distributed Storage Interconnect

General Data Center Ethernet Interconnect

Others

Companies Profiled:

NVIDIA

Arista Networks

Cisco

Dell Technologies

Juniper Networks

HPE Aruba Networking

H3C

Huawei

Ruijie Networks

IEIT Systems

Supermicro

Edgecore Networks

UfiSpace

Celestica

FS

Key Questions Answered:

1. How big is the global Air-cooled RDMA-capable High-speed Ethernet Switch market?
2. What is the demand of the global Air-cooled RDMA-capable High-speed Ethernet Switch market?
3. What is the year over year growth of the global Air-cooled RDMA-capable High-speed Ethernet Switch market?
4. What is the production and production value of the global Air-cooled RDMA-capable High-speed Ethernet Switch market?
5. Who are the key producers in the global Air-cooled RDMA-capable High-speed Ethernet Switch market?
6. What are the growth factors driving the market demand?

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