

Global RDMA NIC Market Growth 2026-2032

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Abstracts

The global RDMA NIC market size is predicted to grow from US\$ 4731 million in 2025 to US\$ 8049 million in 2032; it is expected to grow at a CAGR of 6.6% from 2026 to 2032.

An RDMA NIC is a class of server-grade network interface device designed for data centers, artificial intelligence computing, high-performance computing, cloud infrastructure, and high-throughput storage systems. Its core function is to establish a low-latency, high-bandwidth, and low-CPU-overhead data transfer channel between hosts, allowing application data to bypass the traditional kernel protocol stack and multiple memory copies and to be read from or written directly between local memory and remote memory. These products are typically delivered as PCIe adapters, OCP adapters, mezzanine cards, SmartNICs, DPU cards, or embedded RNIC IP, and commonly support RoCE, RoCEv2, iWARP, InfiniBand, or dual-mode Ethernet and InfiniBand protocols. They improve cluster communication efficiency through queue pairs, memory registration, DMA engines, congestion control, flow control, virtualization offload, storage protocol offload, and security acceleration. Key performance indicators include port speed, port count, PCIe generation, message latency, throughput, queue scale, virtual function count, protocol offload scope, and power consumption. The products are mainly used in large model training and inference clusters, GPU servers, cloud hosts, bare-metal services, hyperconverged infrastructure, NVMe-oF storage, distributed databases, low-latency financial trading, media production, and high-speed data acquisition. Typical customers include cloud service providers, server vendors, AI computing centers, enterprise data centers, research institutions, and storage system integrators. As AI cluster scale expands and east-west traffic grows rapidly, RDMA NICs are evolving from traditional network adapters into core components for connectivity, offload, isolation, programmable processing, and infrastructure acceleration.

The industrial positioning of RDMA NICs is shifting from a server peripheral to a critical

performance component of data center infrastructure. Traditional Ethernet communication relies on the host CPU, kernel protocol stack, and multiple memory copies, which can create latency, jitter, and CPU resource bottlenecks in large-scale AI training, distributed storage, cloud virtualization, and high-performance computing workloads. RDMA NICs use hardware queues, DMA transfer, memory registration, congestion control, and protocol offload to enable direct memory access between servers, thereby increasing throughput, reducing latency, and freeing host CPU resources. The value of these products is reflected not only in higher port speeds, but also in the combined improvement of cluster communication efficiency, GPU utilization, storage I/O efficiency, and cloud platform resource density. As port speeds evolve from 25G and 100G toward 200G, 400G, and even 800G, RDMA NICs have become indispensable connectivity and acceleration devices in AI computing clusters, cloud data centers, and next-generation storage networks.

From a product form perspective, RDMA NICs are developing into a supply system that includes traditional RNICs, converged Ethernet adapters, SmartNICs, DPU cards, and embedded RNIC IP. Traditional RNICs mainly provide RoCE, iWARP, or InfiniBand communication capabilities and are suitable for standard servers and high-performance storage systems. SmartNICs add network virtualization, traffic processing, telemetry, and security offload capabilities, reducing the burden of software switching and virtual networking on the host. DPU cards further integrate processor cores, dedicated acceleration engines, and programmable data planes, allowing them to handle infrastructure tasks related to bare metal, containers, virtual machines, storage, security, and operations. Embedded RNIC IP targets FPGAs, self-developed chips, and specialized acquisition systems, providing RoCE or RDMA capabilities for differentiated hardware platforms. The common direction across these product routes is to migrate more communication, storage, and security tasks from the CPU to the NIC side, transforming the network interface from a passive forwarding device into a programmable, offload-capable, and isolated infrastructure processing node.

From a market trend perspective, RDMA NICs benefit from multiple growth drivers, including large AI models, GPU clusters, hyperconverged infrastructure, NVMe-oF storage, and enterprise cloud adoption. AI training places extremely high bandwidth and latency requirements on cross-node parameter synchronization, gradient exchange, and data reading, driving high-end RDMA NICs toward higher speeds and stronger congestion management capabilities. Storage systems use RDMA to reduce read and write path overhead and improve the responsiveness of databases, object storage, distributed file systems, and all-flash arrays. Cloud service providers and large enterprise data centers focus on multi-tenant isolation, virtualization performance, and

infrastructure offload, supporting the penetration of SmartNICs and DPU cards. Future competition will center on high-end SerDes capabilities, protocol stack maturity, server compatibility, GPU and storage ecosystems, power control, programmability, and localized supply capability, while the overall industry remains in a strong growth phase.

LP Information, Inc. (LPI) ' newest research report, the "RDMA NIC Industry Forecast" looks at past sales and reviews total world RDMA NIC sales in 2025, providing a comprehensive analysis by region and market sector of projected RDMA NIC sales for 2026 through 2032. With RDMA NIC sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US\$ millions of the world RDMA NIC industry.

This Insight Report provides a comprehensive analysis of the global RDMA NIC landscape and highlights key trends related to product segmentation, company formation, revenue, and market share, latest development, and M&A activity. This report also analyzes the strategies of leading global companies with a focus on RDMA NIC portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global RDMA NIC market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for RDMA NIC and breaks down the forecast by Port Speed, by Application, geography, and market size to highlight emerging pockets of opportunity. With a transparent methodology based on hundreds of bottom-up qualitative and quantitative market inputs, this study forecast offers a highly nuanced view of the current state and future trajectory in the global RDMA NIC.

This report presents a comprehensive overview, market shares, and growth opportunities of RDMA NIC market by product type, application, key manufacturers and key regions and countries.

Segmentation by Port Speed:

25G and Below RDMA NIC

40G to 100G RDMA NIC

200G RDMA NIC

400G RDMA NIC

800G RDMA NIC

Others

Segmentation by Card Form Factor:

Standard PCIe Add-in Card

OCP 3.0 NIC

Mezzanine NIC

Onboard NIC

Others

Segmentation by Port Form Factor:

SFP28 Interface RDMA NIC

QSFP28 Interface RDMA NIC

QSFP56 Interface RDMA NIC

OSFP Interface RDMA NIC

RJ45 Interface RDMA NIC

Others

Segmentation by Application:

AI Training Cluster

Cloud Data Center

Hyperconverged Storage

High-Performance Computing

Media Production and High-Speed Acquisition

Financial Low-Latency Network

Others

This report also splits the market by region:

Americas

United States

Canada

Mexico

Brazil

APAC

China

Japan

Korea

Southeast Asia

India

Australia

Europe

Germany

France

UK

Italy

Russia

Middle East & Africa

Egypt

South Africa

Israel

Turkey

GCC Countries

The below companies that are profiled have been selected based on inputs gathered from primary experts and analysing the company's coverage, product portfolio, its market penetration.

NVIDIA

Broadcom

Intel

Marvell

Chelsio

Cisco

ATTO

Huawei

H3C

YUSUR

JaguarMicro

LR-LINK

NebulaMatrix

AMD

Key Questions Addressed in this Report

What is the 10-year outlook for the global RDMA NIC market?

What factors are driving RDMA NIC market growth, globally and by region?

Which technologies are poised for the fastest growth by market and region?

How do RDMA NIC market opportunities vary by end market size?

How does RDMA NIC break out by Port Speed, by Application?

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