

Remote Direct Memory Access (RDMA) Acceleration Software Market Size, Share & Trends by Product – Industry Analysis

*The Business Research Company's
Remote Direct Memory Access (RDMA)
Acceleration Software Market Report
2026 – Market Size, Trends, And Global
Forecast 2026-2035*

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/EINPresswire.com/ -- "The [remote](#)

[direct memory access \(RDMA\) acceleration software market](#) is rapidly becoming a crucial component in enhancing data transfer speeds and reducing latency across various high-demand computing environments. As digital infrastructure continues to evolve, this market is set to experience significant growth driven by advancements in technology and increasing data processing needs.

Current Size and Projected Growth Trajectory of the [RDMA Acceleration Software Market](#)

The RDMA acceleration software market has expanded swiftly in recent years, with its value expected to rise from \$1.84 billion in 2025 to \$2.13 billion in 2026, representing a compound annual growth rate (CAGR) of 15.6%. This historical growth has been fueled by an increasing demand for high-performance computing, the expansion of cloud data centers, rising volumes of enterprise data traffic, early adoption of low-latency networking solutions, and greater requirements for big data processing.

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Looking ahead, the market is set to continue its strong upward trend, reaching \$3.84 billion by 2030 with a CAGR of 15.8%. This anticipated expansion is largely driven by the growth in artificial intelligence workloads, the proliferation of hyperscale data centers, an increasing need for real-time analytics, the deployment of edge computing infrastructures, and growing investments in high-speed network hardware. Key trends shaping the market include the adoption of ultra-low



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latency network optimization tools, the rollout of high-speed data transfer architectures, advancements in CPU bypass and direct memory communication technologies, deeper integration of sophisticated network monitoring and diagnostics platforms, and improvements in scalable data center acceleration solutions.

What RDMA Acceleration Software Does and Its Role

RDMA acceleration software provides a technology that allows for rapid, low-latency data transfers directly between the memory of connected systems, bypassing the CPU. This software plays a vital role in optimizing network communication for data-heavy tasks such as high-performance computing, artificial intelligence applications, and cloud data management. By speeding up data movement and increasing efficiency, it is especially valuable in latency-sensitive and large-scale computing settings.

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Key Factors Propelling the RDMA Acceleration Software Market

A major driver of the RDMA acceleration software market is the increasing demand for low-latency data transfer capabilities. Low latency is essential for transferring data swiftly between servers, storage devices, and computing resources, which is critical for cloud computing, high-performance computing, AI development, and real-time digital applications. This demand is intensifying due to the rapid growth of real-time applications, streaming platforms, AI workloads, and distributed cloud systems that require near-instant data exchange. RDMA acceleration software supports these needs by enabling direct memory access between different systems, bypassing conventional network pathways to significantly reduce latency, lower CPU load, and eliminate data transfer bottlenecks. For example, in April 2023, the UK's Department for Science, Innovation & Technology highlighted how widespread adoption of standalone 5G technology—offering higher capacity and much lower latency—is expected to boost the digital economy, accelerate growth in sectors like artificial intelligence, and contribute up to \$190.32 billion (£159 billion) in productivity benefits by 2035. This underscores how the rising need for low-latency data transfer is driving the market forward.

Regional Dynamics Shaping the RDMA Acceleration Software Market

In 2025, North America held the largest share of the RDMA acceleration software market. However, the Asia-Pacific region is anticipated to experience the fastest growth throughout the forecast period. The market report covers a diverse range of regions, including Asia-Pacific, South East Asia, Western Europe, Eastern Europe, North America, South America, the Middle East, and Africa, providing a comprehensive view of global market trends and regional developments.

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