



A-9, Silver Croft, Above Indian Overseas Bank, Marve Road, Malad West, Mumbai: 400064, India

Global AI-optimized Hardware Market Size

According to a new market research report published by Global Market Estimates, the [global AI-optimized hardware market](#) is expected to grow at a CAGR of 25.9% from 2023 to 2028.

Traditional computing hardware may not be capable of handling the complex computations required for deep learning and other advanced AI tasks. AI-optimized hardware, such as GPUs and TPUs, provides the necessary performance boost for training and running sophisticated AI models.

Browse 147 Market Data Tables and 115 Figures spread through 163 Pages and in-depth TOC on [“Global AI-optimized Hardware Market - Forecast to 2028”](#)

Key Market Trends

- In response to the increasing demand for localized processing power, one prominent trend in the AI-optimized hardware landscape is the emphasis on Edge AI Acceleration.
- Edge computing, which involves processing data closer to the source of generation, has gained significant traction.
- To cater to this demand, AI hardware manufacturers are integrating specialized accelerators into edge devices. This approach aims to facilitate real-time processing, reduce latency, and enhance the overall efficiency of decentralized AI applications.
- As organizations continue to embrace edge computing, the development and deployment of hardware optimized for Edge AI are expected to play a pivotal role in shaping the industry.
- Another noteworthy trend revolves around the customization of AI chips, specifically the rise of Application-Specific Integrated Circuits (ASICs). Traditional hardware solutions are being reimagined to align with the unique requirements of AI workloads.
- This customization allows for improved efficiency, faster processing speeds, and optimized power consumption. Industry players are increasingly investing in the creation of proprietary AI hardware, focusing on tailoring solutions to meet specific demands.



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Key Market Insights

- As per the end user outlook, the automotive segment is expected to be the largest segment during the forecast period
- As per the application type outlook, the deep learning segment is projected to be the largest segment during the forecast period
- Asia Pacific is analyzed to be the fastest-growing region in the market
- North America is analyzed to account for largest share of the global market during the forecast period from 2023-2028
- Key players operating in the global AI-optimized hardware market include Nvidia Corp., Qualcomm Technologies, Samsung Electronics Co. Ltd., IBM Corp., Micron Technology Inc., Huawei Technologies Co. Ltd., Intel Corp., Google LLC, and Microsoft Corp., among others

Request for a Sample Copy of the Report: <https://www.globalmarketestimates.com/market-report/ai-optimized-hardware-market-4254>

By End User (Revenue, USD Billion, 2023-2028)

- Automotive
- Retail
- Healthcare

By Type (Revenue, USD Billion, 2023-2028)

- Central Processing Units (CPUs)
- Graphics Processing Units (GPUs)
- Application-Specific Integrated Circuits (ASICs)

By Application Type (Revenue, USD Billion, 2023-2028)

- Deep Learning
- Natural Language Processing (NLP)
- Computer Vision



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By Regional Outlook (Revenue, USD Billion, 2023-2028)

North America

- U.S.
- Canada
- Mexico

Europe

- Germany
- U.K.
- France
- Spain
- Italy
- Netherlands
- Rest of Europe

Asia Pacific

- China
- India
- Japan
- South Korea
- Thailand
- Indonesia
- Malaysia
- Singapore
- Vietnam
- Rest of APAC

Central and South America

- Brazil
- Argentina
- Chile
- Rest of CSA



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Middle East and Africa

- Saudi Arabia
- UAE
- Israel
- South Africa
- Rest of MEA

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