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Global High Performance Computing Chipset Market Growth 2025-2031

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Abstracts

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The global High Performance Computing Chipset market size is predicted to grow from US$ million in 2025 to US$ million in 2031; it is expected to grow at a CAGR of %from 2025 to 2031.

High Performance Computing (HPC) has the ability to process massive datasets at high speeds and perform complicated calculations. These calculations are performed with the help of HPC chipset, which act as a communication hub between the software and hardware. High Performance Computing is about size and speed.

Following a strong growth of 26.2 percent in the year 2021, WSTS revised it down to a single digit growth for the worldwide semiconductor market in 2022 with a total size of US$580 billion, up 4.4 percent. WSTS lowered growth estimation as inflation rises and end markets seeing weaker demand, especially those exposed to consumer spending. While some major categories are still double-digit year-over-year growth in 2022, led by Analog with 20.8 percent, Sensors with 16.3 percent, and Logic with 14.5 percent growth. Memory declined with 12.6 percent year over year. In 2022, all geographical regions showed double-digit growth except Asia Pacific. The largest region, Asia Pacific, declined 2.0 percent. Sales in the Americas were US$142.1 billion, up 17.0% year-on-year, sales in Europe were US$53.8 billion, up 12.6% year-on-year, and sales in Japan were US$48.1 billion, up 10.0% year-on-year. However, sales in the largest Asia-Pacific region were US$336.2 billion, down 2.0% year-on-year.

LP Information, Inc. (LPI) ' newest research report, the “High Performance Computing Chipset Industry Forecast” looks at past sales and reviews total world High

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Performance Computing Chipset sales in 2024, providing a comprehensive analysis by region and market sector of projected High Performance Computing Chipset sales for 2025 through 2031. With High Performance Computing Chipset sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US$ millions of the world High Performance Computing Chipset industry.

This Insight Report provides a comprehensive analysis of the global High Performance Computing Chipset 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 High Performance Computing Chipset portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global High Performance Computing Chipset market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for High Performance Computing Chipset and breaks down the forecast by Type, 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 High Performance Computing Chipset.

This report presents a comprehensive overview, market shares, and growth opportunities of High Performance Computing Chipset market by product type, application, key manufacturers and key regions and countries.

Segmentation by Type:

CPU

GPU

FPGA

ASIC

Segmentation by Application:

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- Life Science
- Bioscience
- Automotive
- Aerospace
- Others

This report also splits the market by region:

- Americas
  - United States
  - Canada
  - Mexico
  - Brazil
- APAC
  - China
  - Japan
  - Korea
  - Southeast Asia
  - India
  - Australia
- Europe

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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.

ADVANCED MICRO DEVICES,INC.

INTEL CORPORATION

INTERNATIONAL BUSINESS MACHINES CORPORATION(IBM)

CISCO SYSTEMS,INC.

Hewlett Packard Enterprise Development LP

NVIDIA CORPORATION

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MEDIATEK INC

Achronix Semiconductor Corp

Alphabet Inc

Lattice Semiconductor Corporation.

Key Questions Addressed in this Report

What is the 10-year outlook for the global High Performance Computing Chipset market?

What factors are driving High Performance Computing Chipset market growth, globally and by region?

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

How do High Performance Computing Chipset market opportunities vary by end market size?

How does High Performance Computing Chipset break out by Type, by Application?

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