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High Performance Computing (HPC) Chipset Market Expected to Reach $29.4 Billion by 2032

OREGAON, DE, UNITED STATES, September 16, 2024 /EINPresswire.com/ -- According to a new report published by Allied Market Research, titled, "High Performance Computing (HPC) Chipset Market by Chip Type: Global Opportunity Analysis and Industry Forecast, 2023-2032," The high performance computing (hpc) chipset market was valued at $5.7 billion in 2022, and is estimated to reach $29.4 billion by 2032, growing at a CAGR of 17.9% from 2023 to 2032.

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High performance computing (HPC) is known as supercomputing that refers to computing systems with extremely high computational power, which are able to solve complex problems. In this digital era, HPC computing is at the core of major advances and innovation. It is normally used for solving advanced problems and performing research activities through computer modeling, simulation, and analysis. This system has the ability to deliver sustained performance through concurrent use of computing resources.

The factor that drives growth of the high performance computing (HPC) chipset industry includes empowering high performance computing in the cloud sector, government initiatives, and increase in need for flexible computing services. However, the high cost of HPC restricts market growth. Conversely, increase in focus toward hybrid HPC infrastructure is expected to create lucrative opportunities for the industry. Use of high performance computing in cloud helps to elevate performance, control costs, and accelerate results. It runs complex simulations against large datasets in fields such as aerodynamics, physics, or pharmaceuticals.

High Performance computing requires continuous efficiency & working of HPC clusters. Thus, HPC services enable complete control for users over computing infrastructure such as analysis software and operating systems. In addition, flexible computing meets growth in demand from multinational corporations for networked cloud infrastructure services from single communication and IT services providers. Flexible computing offers a scalable and modular service for fast and easy provisioning of resources, which scale up and down to meet fluctuating demand and dynamic business growth. Hybrid approach allows applications and components to interoperate across boundaries, among cloud instances and among architectures.

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A hybrid HPC infrastructure results in better efficiency, scalability, enhanced security, and better technology. Apart from this, it resolves security and privacy concerns as well as lowers the maintenance cost. Therefore, rise in focus toward hybrid HPC infrastructure is expected to provide lucrative opportunities for the high performance computing (HPC) chipset market growth.

GPU segment was the largest contributor of revenue in 2022 and is expected to grow at a CAGR of 13.12% from 2023 to 2032. The massive parallel processing capability of the graphical processing unit (GPU) fosters the growth of the GPU segment in the HPC chipset industry. Constant advancements in graphic-based games, traction in augmented reality (AR) & virtual reality (VR), trending artificial intelligence (AI), and rise in adoption of gaming laptops and computers are expected to fuel the GPU market, which are expected to boost the high performance computing (HPC) chipset market demand. CPU segment was the second largest contributor of revenue in 2022 and consumed 32.97% of the high performance computing (HPC) chipset market share.

By region, the high performance computing (HPC) chipset market trends have been analyzed across North America, Europe, Asia-Pacific, and LAMEA. The analysis identified that Asia-Pacific contributed maximum revenue in 2022 and is expected to grow at a faster rate as compared to other regions. Factors such as appearance of big data has increased the demand for systems that handle data-intensive workload. Asia-Pacific is the fastest-growing region for the global high performance computing (HPC) chipset market size, which is mainly attributed to the surge in focus of the market players to address the demands of higher processing power with reliable and quicker response time.

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The key players profiled in the high performance computing (HPC) chipset market analysis, such as Advanced Micro Devices Inc, Alphabet inc., Hewlett Packard Enterprise Development LP, Lattice Semiconductor Corporation, International Business Machines Corporation (IBM), Cisco Systems, Inc., Intel Corporation, Nvidia Corporation, Mediatek Inc., and Achronix Semiconductor Corporation are provided in this report. Market players have adopted various strategies such as product launches and customer acquisitions to expand their foothold in the high performance computing (HPC) chipset market.

KEY FINDINGS OF THE STUDY
• The high performance computing (HPC) chipset market demand is expected to grow significantly in the coming years, driven by the increase in adoption of AI technologies.
• The market is expected to be driven by the demand for immersive artificial intelligence sensor

technology such as machine learning.

• The market is highly competitive, with several major players competing for market share. The competition is expected to intensify in the coming years as new players enter the market. The Asia-Pacific region is expected to be a major market for high performance computing (HPC) chipset market due to increased investments in consumer electronics and automotive industries in the region.

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