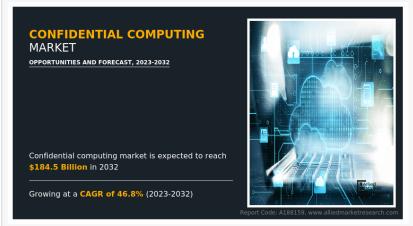# EINPRESSWIRE

Confidential Computing Market Size to Exceed USD 184.5 billion By 2032 | CAGR of 46.8%

The software segment is expected to experience the fastest growth in the coming years

WILMINGTON, NEW CASTLE, DE, UNITED STATES, December 4, 2024 /EINPresswire.com/ -- The global ▢▢▢▢▢▢▢▢▢▢▢▢ ▢▢▢▢▢▢▢▢▢ ▢▢▢▢▢▢ was valued at $4.1 billion in 2022, and is projected to reach $184.5 billion by 2032, growing at a CAGR of 46.8% from 2023 to 2032. Surge in need to comply with regulatory standards, growing

CONFIDENTIAL COMPUTING
MARKET
OPPORTUNITIES AND FORECAST, 2023-2032

Confidential computing market is expected to reach **$184.5 Billion** in 2032

Growing at a **CAGR of 46.8%** (2023-2032)

Report Code: A188159, www.alliedmarketresearch.com

Confidential Computing Market

concerns regarding data security and privacy, and increasing need for secure cloud computing primarily drive the growth of the confidential computing market. However, implementation and integration challenges hamper market growth to some extent. Moreover, the increasing need for secure AI solutions is expected to provide lucrative opportunities for market growth during the forecast period.

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> The growth of the global confidential computing market is driven by surge in need to comply with regulatory standards, growing concerns regarding data security and privacy.
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Based on component, the software segment held the highest market share in 2022, accounting for more than three-fifths of the confidential computing market revenue and is estimated to

maintain its leadership status throughout the forecast period, owing to protect their data, especially during processing or when sharing it with outside parties, due to the surge in sophisticated cyberattacks and data breaches. However, the hardware segment is projected to manifest the highest CAGR of 49.6% from 2023 to 2032, owing to enormous volumes of sensitive data as a result of the development of digital technology and the emergence of data-driven decision-making.

Based on the end user, the BFSI segment accounted for the largest share in 2022, owing to benefit that financial information is handled with the highest care and security, which helps to increase customer trust and confidence. However, the retail and e-commerce segment is expected to portray the largest CAGR of 52.8% from 2023 to 2032 and is projected to maintain its lead position during the forecast period, owing to the growing reliance on digital platforms and the acquisition of enormous volumes of client data.

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On the basis of deployment, on premise segment dominated the confidential computing market size in 2022 and is expected to maintain its dominance in the upcoming years, owing to ensure that user are in compliance with data sovereignty laws and lowering their dependency on outside service providers propels the market growth significantly. However, the cloud segment is expected to witness the highest growth, owing to the rising demand for data-intensive and privacy-sensitive applications.

Organizations frequently use cloud computing for data processing, analysis, and storage. The use of cloud-based solutions in some complex tasks has been hampered by a rise in worries about data security and privacy. In this case, secure data processing in the cloud is made possible by confidential computing, enabling the security of sensitive data even from cloud service providers. The growth of safe cloud computing solutions is fueled by the incorporation of private computing capabilities into cloud platforms. Applications for data analysis, predictive modelling, and decision-making use AI & ML technologies. Such solutions frequently involve processing complex data, including private information, or exclusive algorithms. Data privacy and protection are made possible by confidential computing, which offers a secure environment for running AI and ML workloads. Furthermore, the demand for confidential computing has increased as AI is utilized in manufacturing and retail sectors.

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By region, North America dominated the confidential computing market share in 2022 for the confidential computing market. The rise in investment in advanced technologies, such as cloud-based services and increase in digitalization are anticipated to propel the growth of the confidential computing market. However, Asia-Pacific is expected to exhibit the highest growth

during the forecast period. This is attributed to the increase in investments in IT, ML, AI, IoT and connected devices are expected to provide lucrative growth opportunities for the market in this region.

Based on deployment mode, the on-premise segment held the highest market share in 2022, accounting for more than three-fifths of the confidential computing market revenue and is estimated to maintain its leadership status throughout the forecast period, owing to data privacy, satisfies compliance and regulatory standards, and protects against insider threats within the company. However, the cloud segment is projected to manifest the highest CAGR of 49.7% from 2023 to 2032, owing to hardware-based security capabilities such as Intel SGX (Software Guard Extensions) and AMD SEV (Secure Encrypted Virtualization). These secure enclaves offer separated, encrypted settings for the safe processing of sensitive data and calculations.

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Based on region, the North America segment held the highest market share in terms of revenue in 2022, accounting for nearly two-fifths of the Confidential Computing market revenue, owing to increasing digitization of businesses and the proliferation of sensitive data requires protecting this data from unauthorized access, even from cloud providers themselves. The Asia-Pacific region is expected to witness the fastest CAGR of 51.6% from 2023 to 2032, owing to the adaption of smart technologies such as AI, ML and virtual machines escalates the demand for confidential computing.

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