

Cloud Encryption Software - Market Share Analysis, Industry Trends & Statistics, Growth Forecasts (2025 - 2030)

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Report description:

The Cloud Encryption Software Market size is estimated at USD 8.15 billion in 2025, and is expected to reach USD 36.88 billion by 2030, at a CAGR of 35.23% during the forecast period (2025-2030).

Key Highlights

- Cyberattacks are becoming more frequent and sophisticated, especially in cloud environments, driving significant growth in the cloud sector. As cloud computing spearheads a new digital transformation, its rapid adoption underscores its pivotal role in shaping the future of business and technology. This shift is largely fueled by the increasing complexity of business demands. Organizations, grappling with surging data volumes and an urgent need for real-time analytics, find traditional on-premises infrastructures inadequate.
- Research from the International Journal of Research in Computer Applications and Information Technology indicates that cloud computing is nearing ubiquity, with 94% of enterprises already onboard. Projections suggest that by 2026, 67% of enterprise infrastructures will be cloud-based. Additionally, a recent press release from Salesforce showcased the impressive performance of Data Cloud, highlighting a 130% year-over-year increase in paid customers and the processing of over 2 quadrillion records each quarter.
- According to the 2024 Flexera State of the Cloud Report, cloud usage in Europe is on the rise. This year, 73% of respondents reported heavy usage, up from 62% last year and 58% the year before. The report also noted that 89% of organizations are leveraging multi-cloud setups. In contrast, 10% rely on single public clouds, and only 1% utilize single private clouds. Among those with multi-cloud strategies, 73% favor hybrid models that integrate both public and private clouds. Furthermore, 14% utilize multiple public clouds, while 2% engage with several private clouds. The widespread adoption of hybrid clouds highlights their flexibility in addressing diverse workload demands and bolstering data security.
- As a result, protecting cloud environments has become the top security priority, eclipsing all other concerns. This urgency is

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evident, given that 44% of organizations have experienced a cloud data breach, with 14% facing such incidents in the past year. The landscape has shifted dramatically: data is now collected from a myriad of sources, including applications, users, devices, and connected hardware. New business models increasingly demand external access.

- With the rise of cloud computing, a firm's data might not even reside internally. Moreover, insiders now encompass third-party cloud providers, external to the organization. This shift underscores the growing reliance on encryption solutions, propelling the market's expansion.

- Factors such as the swift rise of cloud adoption, virtualization, and stringent regulations are fueling the global growth of cloud encryption solutions.

- Cloud encryption, a service from cloud storage providers, transforms data using various encryption algorithms before storing it in the cloud. The use of encryption has surged in recent years, applied in diverse scenarios, from securing data in databases and file systems to protecting data transfers over both public and internal networks.

Cloud Encryption Software Market Trends

IT & Telecommunication Segment to Witness High Growth

- Businesses, government agencies, and organizations worldwide increasingly rely on IT and telecommunications, leading to significant growth in various nations. For instance, TRAI reported that in the financial year 2024, India's telecom sector grossed a revenue of 3.36 trillion Indian rupees (approximately USD 0.038 trillion).

- As the IT industry rapidly expands, it's adopting cloud technologies on a grand scale. These cloud technologies have become integral to both the IT and telecom sectors. Telecom companies are leveraging cloud services to streamline processes, saving both time and money. With these cloud capabilities, the industry is not only accelerating its growth but also boosting the demand for cloud encryption software.

- By migrating processes and computing to the cloud, companies are achieving cost reductions and enhanced efficiency. Furthermore, cloud systems are effectively tackling data management challenges in these sectors. The allure of on-demand services combined with reduced operational costs is propelling the IT and telecom industries to embed cloud technology at their core.

- Yet, as dependence on interconnected networks, cloud computing, and digital communication grows, so does the imperative for stringent cloud data security measures. A significant segment of the global cloud encryption software market comprises end-users from the IT and telecom sectors, all aiming to safeguard their sensitive data, networks, and communications against ever-evolving cyber threats.

North America Occupies the Largest Market Share

- North America, a global economic powerhouse, commands a significant portion of the worldwide cloud encryption software market. As concerns over data privacy and security intensify among regional companies, the cloud encryption software market in North America is poised for rapid expansion.

- In recent years, high-profile data breaches have sparked outrage among North American cloud service providers, highlighting the vulnerability of user data. In response, many firms have bolstered their cloud security measures and adopted advanced encryption solutions. These incidents have not only heightened concerns over data loss but have also driven substantial investments in encryption software across the region.

- In a sweeping cyberattack on the US federal government, millions in Louisiana and Oregon found their data compromised. The breach specifically impacted 3.5 million Oregonians holding driver's licenses or state ID cards. While over 6 million records were

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reported compromised, officials noted the figure was duplicative, as some individuals possess both driver registrations and permits. Federal authorities have linked the broader hacking campaign, exploiting the same vulnerability, to a Russian ransomware group.

- In response to these challenges, North American governments have enacted stringent regulations, mandating firms to enhance cloud security measures to better protect user data.

Cloud Encryption Software Industry Overview

Numerous players, both small and large, populate the competitive landscape of the cloud encryption software market, spanning both domestic and international arenas. While the market shows signs of mild consolidation, major players predominantly lean on strategies of product innovation and mergers & acquisitions. Notable players include Google LLC, Symantec Corporation, Hewlett Packard Enterprise, and Trend Micro Inc.

Cloud encryption is advancing with techniques such as homomorphic and quantum-resistant encryption. These cutting-edge methods not only safeguard data during processing but also shield it from potential threats posed by future quantum computing, upholding data integrity and confidentiality in cloud settings.

Moreover, Cloud Security Posture Management (CSPM) tools play a pivotal role in overseeing cloud configurations, identifying misconfigurations, vulnerabilities, and compliance challenges. By streamlining remediation processes and adhering to security benchmarks, CSPM tools bolster defenses against data breaches and uphold regulatory standards in the intricate realm of cloud computing.

Additional Benefits:

- The market estimate (ME) sheet in Excel format
- 3 months of analyst support

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