

Quantum-Resistant Secure Mail Server Market Size, Share & Drivers Analysis Report By Product

*The Business Research Company's
Quantum-Resistant Secure Mail Server
Market Size, Share & Drivers Analysis
Report By Product*

LONDON, GREATER LONDON, UNITED
KINGDOM, October 30, 2025

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What Is The Quantum-Resistant Secure Mail Server Market Size And Growth?

The market for quantum-resistant secure mail servers has seen a significant expansion in recent years. The market, valued at \$1.72 billion in 2024, is expected to rise to \$2.24 billion in 2025, indicating a compound annual growth rate (CAGR) of 30.2%. Factors leading to this impressive growth during the historic period include the introduction of quantum computing risks, mounting concerns over data privacy, digital evolution, increasing financial sector risk exposure, and the escalating need for safeguarding data in the healthcare sector.



Expected to grow to \$6.39 billion in 2029 at a compound annual growth rate (CAGR) of 29.9%"

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The market size of the quantum-resistant secure mail server is predicted to witness remarkable growth over the coming years, ballooning to a staggering \$6.39 billion by 2029, representing a compound annual growth rate (CAGR) of 29.9%. This predicted surge over the forecast duration is ascribed to increasing worries over cybersecurity, the expanding demand for security in supply chains, the enforcement of intellectual property protection, the rise of remote work and an upwards trend in cloud usage. Key trends expected during the forecast timeline include amalgamation with current infrastructure, deploying cutting-edge authentication procedures, the application of artificial intelligence in ensuring security, the incorporation of machine learning for detecting threats, and the integration of blockchain technology for authenticating emails.

Download a free sample of the quantum-resistant secure mail server market report:

<https://www.thebusinessresearchcompany.com/sample.aspx?id=28780&type=smp>

What Are The Current Leading Growth Drivers For Quantum-Resistant Secure Mail Server Market?

Expectations are that the upsurge of cyber threats will stimulate the expansion of the quantum-resistant secure mail server market. Cyber threats encompass any potential risks or assaults aimed at undermining the security, integrity, or availability of computer systems, networks, or data. The surge in remote work fuels the growth in cyber threats, with more employees logging into company networks using personal devices and unsecured home networks, presenting more potential loopholes for cybercriminals to exploit vulnerabilities. A quantum-resistant secure mail server utilizes robust encryption methods to combat cyber threats, designed to be impervious to attacks from quantum computers, thus assuring that sensitive email communications are protected despite advancements in computing power. For instance, as reported by Check Point Software Technologies, a cybersecurity company based in Israel, in October 2024, the weekly cyberattacks per organization averaged 1,876 during the third quarter of 2024, a 75% increase from the third quarter of 2023 and a 15% growth from the previous quarter. Therefore, the escalation in cyber threats is fueling the expansion of the quantum-resistant secure mail server market. The growing reliance on cloud-based solutions contributes to pushing the quantum-resistant secure mail server market due to the increase in sensitive online data volumes and exposure to quantum threats. Cloud-based solutions provide software or services via the internet, enabling remote data and application access, storage, and management. The dependency on cloud-based solutions is on the rise because of an increasing need for remote work and cooperation as they allow employees to securely access and work on data and applications remotely, improving productivity and ensuring business continuity. As more organizations turn to cloud-based services, the amount of sensitive data stored and sent online soars, heightening the exposure to potential quantum computing attacks and reinforcing the need for quantum-resistant secure mail servers to ensure long-term data security. For instance, according to AAG IT Services, a UK-based IT service company, in January 2025, 89% of organizations surveyed in 2022 utilized multi-cloud solutions for their storage and workloads, with only 9% employing a single public cloud and 2% relying on a single private cloud. Therefore, the growing uptake of cloud-based solutions boosts the expansion of the quantum-resistant secure mail server market.

Which Companies Are Currently Leading In The Quantum-Resistant Secure Mail Server Market?

Major players in the Quantum-Resistant Secure Mail Server Global Market Report 2025 include:

- Google LLC
- Microsoft Corp.
- Eviden
- Entrust Corp.
- DigiCert Inc.

- Proton AG
- Sectigo Ltd.
- Keyfactor Inc.
- Virtru Corp.
- Wisekey SA

What Are The Main Trends, Positively Impacting The Growth Of Quantum-Resistant Secure Mail Server Market?

Major players in the quantum-resistant secure mail server market are directing their efforts towards creating innovative solutions such as post-quantum encryption protocols to maintain long-term data privacy. These protocols provide security by incorporating algorithms specifically engineered to resist the computational capabilities of quantum computers. For example, in April 2024, Tuta Mail, a secure email service originating from Germany, unveiled TutaCrypt. This is a post-quantum encryption protocol engineered to protect emails from possible quantum computer attacks. The protocol represents a shift from traditional RSA-2048 encryption to a mixed protocol that is designed to resist quantum computers. The protocol merges CRYSTALS-Kyber, a post-quantum key encapsulation mechanism, with the Elliptic-Curve-Diffie-Hellman (x25519) to secure emails. This system further safeguards calendar sharing, contact list sharing, and future file-sharing functions. This unique hybrid configuration strengthens Tuta Mail's protection against potential quantum computing threats.

How Is The Quantum-Resistant Secure Mail Server Market Segmented?

The quantum-resistant secure mail server market covered in this report is segmented as

- 1) By Component: Software, Hardware, Services
- 2) By Deployment Mode: On-Premises, Cloud
- 3) By Organization Size: Small And Medium Enterprises, Large Enterprises
- 4) By Application: Email Encryption, Secure Communication, Data Protection, Other Applications
- 5) By End-User: Banking, Financial Services And Insurance (BFSI), Government, Healthcare, Information Technology And Telecommunications, Defense, Other End-Users

Subsegments:

- 1) By Software: Quantum-Safe Encryption Algorithms, Secure Email Gateways, Post-Quantum Cryptography (PQC) Libraries, Quantum-Resistant Software Development Kits (SDKs), Quantum Key Distribution (QKD) Protocols
- 2) By Hardware: Quantum Key Distribution (QKD) Devices, Quantum Random Number Generators (QRNGs), Quantum Cryptographic Processors, Hardware Security Modules (HSMs)
- 3) By Services: Consulting Services, Implementation Services, Training And Support, Managed Security Services

View the full quantum-resistant secure mail server market report:

<https://www.thebusinessresearchcompany.com/report/quantum-resistant-secure-mail-server-global-market-report>

Which Is The Dominating Region For The Quantum-Resistant Secure Mail Server Market? For the year specified in the Quantum-Resistant Secure Mail Server Global Market Report 2025, Europe led as the biggest region. Further growth is anticipated, primarily in the Asia-Pacific region which is projected to expand at the fastest rate. The report provides data for the following regions: Asia-Pacific, Eastern and Western Europe, North America, South America, as well as the Middle East and Africa, maintaining precision and brevity in its content.

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