

Quantum-Resistant Secure Router Market to Reach US \$5.09 Billion by 2029

*The Business Research Company's
Quantum-Resistant Secure Router Global
Market Report 2025 – Market Size,
Trends, And Global Forecast 2025-2034*

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Quantum-Resistant Secure Router Global Market
Report 2025

What Is The Estimated Industry Size Of [Quantum-Resistant Secure Router Market?](#)

The growth of the quantum-resistant secure router market has been tremendous in recent years. It is projected to expand from \$1.57 billion in 2024 to \$1.99 billion in 2025, featuring a compound annual growth rate (CAGR) of 26.8%. Factors contributing to this historical growth include heightened demand for secure internet access, increased understanding of the threats posed by quantum computing, higher investments in enterprise network security, greater dependence on cloud services, and the escalating demand for cutting-edge secure routers.

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The market for quantum-resistant secure routers is

projected to experience a significant surge in growth over the next few years, reaching a value of \$5.09 billion in 2029 with a compound annual growth rate of 26.4%. This escalation in the forecast period is due to an increased demand for quantum-secure communication, the growing complexity of cyberattacks, enhancement in defense sector investments, a heightened need for security in cloud computing, and secure data reinforcement. Major emerging trends during this period include a shift towards the use of hybrid encryption models, a focus on quantum-secure solutions with low latency, the creation of quantum-safe protocols, the enlargement of quantum-secure router usage in essential sectors, and alliances formed between telecommunications and cybersecurity enterprises.

Download a free sample of the quantum-resistant secure router market report:
<https://www.thebusinessresearchcompany.com/sample.aspx?id=27797&type=smp>

What Are The Major Factors Driving The Quantum-Resistant Secure Router Global Market Growth?

With the rise of cyber threats such as hacking, phishing, ransomware, and data breaches, the quantum-resistant secure router market is predicted to expand. These threats pose significant risk to the security, privacy and integrity of digital networks and information, primarily due to the swift growth in online connections as individuals and businesses augment their internet usage. This increase provides an open playground for hackers to exploit potential vulnerabilities. Quantum-resistant secure routers offer a solution to this problem by introducing advanced encryption algorithms that remain resistant to even quantum computing attacks, thus ensuring the protection of sensitive data and critical infrastructure against current and future cyber threats. For example, as per the Australian Signals Directorate, a government agency in Australia, there was a noteworthy rise in cyber threats in 2022-23, with an approximate 94,000 reports being filed, a 23% jump from the previous year. The cost to businesses due to cybercrime also increased by 14% from the prior financial year. Therefore, these ascending cyber threats serve as a significant catalyst for the growth of the quantum-resistant secure router market.

Who Are The Leading Companies In The Quantum-Resistant Secure Router Market?

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

- Huawei Technologies Co. Ltd.
- Cisco Systems Inc.
- NEC Corporation
- Nokia Corporation
- Thales Group
- ZTE Corporation
- SK Telecom Co. Ltd.
- Atos SE
- Microchip Technology Incorporated
- Palo Alto Networks Inc.

What Are The Key Trends Shaping The [Quantum-Resistant Secure Router Industry](#)?

Leading businesses in the quantum-resistant secure router market are prioritizing the development of unique solutions like post-quantum cryptography integration to protect against potential quantum threats. This integration involves the addition of encryption algorithms which are impervious to quantum attacks into systems, securing data and communications from future quantum threats. For instance, in April 2024, QuSecure Inc., an American software firm, introduced QuProtect Core Security, a post-quantum cryptography solution with crypto-agility for ensuring secure communications between Cisco routers. This product lets organizations like businesses, government bodies, and telecom providers enhance their present networks to quantum-resistant encryption, without necessitating hardware changes. It allows for a smooth,

expandable method of shielding crucial data from forthcoming quantum threats. This product employs sophisticated crypto-agile frameworks like QuProtect Core Security, permitting the merging of traditional and post-quantum algorithms, ensuring enduring resilience against both existing and future cryptographic attacks. It also combines telemetry, orchestration, and cryptographic controls within a single interface, allowing organizations to efficiently monitor, manage, and modify their encryption strategies.

What Are The Primary Segments Covered In The Global Quantum-Resistant Secure Router Market Report?

The quantum-resistant secure router market covered in this report is segmented

- 1) By Product Type: Hardware Routers, Software Routers, Hybrid Routers
- 2) By Security Protocol: Post-Quantum Cryptography, Quantum Key Distribution, Hybrid Encryption
- 3) By Deployment Mode: On-Premises, Cloud-Based
- 4) By Application: Enterprise, Government, Defense, Banking, Financial Services, And Insurance (BFSI), Healthcare, Other Applications
- 5) By End-User: Small And Medium Enterprises, Large Enterprises

Subsegments:

- 1) By Hardware: Enterprise Routers, Carrier-Grade Routers, Data Center Routers, Edge Routers, Core Routers
- 2) By Software: Virtual Routers, Cloud-Based Routers, Containerized Routers, Software-Defined Wide Area Network (SD-WAN) Routers
- 3) By Hybrid: Integrated Hardware-Software Routers, Network-Function Virtualization (NFV) Routers, Managed Hybrid Routers

View the full quantum-resistant secure router market report:

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

Which Region Is Forecasted To Grow The Fastest In The Quantum-Resistant Secure Router Industry?

In 2024, North America held the leading position in the global market for quantum-resistant secure routers. However, the report anticipates that Asia-Pacific will demonstrate the quickest expansion in the coming period. The report thoroughly examines various geographical areas, including Asia-Pacific, Western Europe, Eastern Europe, North America, South America, Middle East, and Africa.

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