

Global Network Encryption Market Size study & Forecast, by Encryption Type (Data Encryption, Link Encryption, IP Encryption, Transport Encryption), by Deployment Model (On-Premise, Cloud-Based, Hybrid), by Industry Vertical (IT and Telecom, BFSI, Healthcare, Government, Retail, Manufacturing, Energy and Utilities) and Regional Forecasts 2025-2035

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Abstracts

The Global Network Encryption Market is valued at approximately USD 24.8 billion in 2024 and is anticipated to grow with a CAGR of more than 9.22% over the forecast period 2025-2035. Network encryption solutions safeguard data in transit across networks by converting sensitive information into coded formats that are unintelligible to unauthorized users. These technologies have become mission-critical in a world increasingly dominated by cloud adoption, remote workforces, and the rapid digitization of industries. The escalating frequency of sophisticated cyberattacks, growing compliance mandates, and rising concerns about data sovereignty have accelerated adoption across enterprises and governments worldwide. The market is further supported by the surge in demand for secure communication channels, particularly in sectors such as finance, healthcare, and critical infrastructure, where even a brief security lapse can trigger catastrophic consequences.

Organizations are being compelled to rethink their security architectures as digital ecosystems grow more distributed and complex. The massive proliferation of IoT devices, coupled with the ubiquity of 5G networks, is expanding the threat surface exponentially, which in turn propels investments in robust encryption technologies.

Reports from leading cyber intelligence bodies suggest that the average cost of a data breach continues to climb annually, reinforcing the need for scalable, end-to-end encryption frameworks. Meanwhile, innovations in quantum-resistant encryption and zero-trust architectures are reshaping the competitive landscape, offering enterprises not only protection against current threats but also resilience against emerging challenges. However, deployment costs, integration complexities, and performance trade-offs in latency-sensitive environments are expected to temper adoption rates in some regions.

The detailed segments and sub-segments included in the report are:

By Encryption Type:

Data Encryption

Link Encryption

IP Encryption

Transport Encryption

By Deployment Model:

On-Premise

Cloud-Based

Hybrid

By Industry Vertical:

IT and Telecom

BFSI

Healthcare

Government

Retail

Manufacturing

Energy and Utilities

By Region:

North America

U.S.

Canada

Europe

UK

Germany

France

Spain

Italy

ROE

Asia Pacific

China

India

Japan

Australia

South Korea

RoAPAC

Latin America

Brazil

Mexico

Middle East & Africa

UAE

Saudi Arabia

South Africa

Rest of Middle East & Africa

Data encryption is expected to dominate the global market during the forecast horizon, accounting for the largest market share. This segment's leadership stems from the exponential growth of digital data traffic, the prioritization of confidentiality in enterprise workflows, and the rising reliance on cloud services where robust encryption standards are indispensable. Enterprises across IT, BFSI, and healthcare are increasingly deploying data encryption to safeguard intellectual property and comply with stringent data protection laws such as GDPR and HIPAA. With cybercrime syndicates leveraging more advanced tactics, data encryption stands out as the most widely adopted safeguard, offering a compelling balance of performance, security, and regulatory compliance.

From a revenue standpoint, the BFSI industry vertical currently leads the market

contribution. The financial sector, being heavily data-intensive and highly regulated, has invested aggressively in network encryption technologies to protect customer data, facilitate secure digital transactions, and mitigate fraud risks. Banks, insurance firms, and fintech players are at the forefront of adopting cutting-edge encryption frameworks, ensuring uninterrupted and secure services in an increasingly digital-first economy. Meanwhile, IT & telecom follows closely, driven by expanding 5G rollouts and the urgent need to protect vast amounts of consumer data traversing networks. Other industries such as healthcare and government are rapidly scaling up encryption adoption, but BFSI retains its revenue leadership due to the constant flow of high-value transactions and sensitive customer information.

The key regions considered for the Global Network Encryption Market study include North America, Europe, Asia Pacific, Latin America, and the Middle East & Africa. North America is anticipated to hold the lion's share in 2025, driven by its advanced IT infrastructure, strong presence of global cybersecurity vendors, and proactive regulatory frameworks. The region's enterprises are early adopters of encryption technologies, benefiting from a mature digital economy and significant investments in cybersecurity innovation. Europe follows closely, buoyed by GDPR-driven data protection mandates and growing digitization across enterprises. Asia Pacific, however, is expected to emerge as the fastest-growing region during the forecast period, underpinned by rapid digital transformation in emerging economies like India and China, a burgeoning fintech sector, and government-led initiatives to strengthen cyber resilience. Meanwhile, Latin America and the Middle East & Africa are witnessing steady momentum as businesses prioritize encryption to mitigate rising cybercrime and adapt to new digital regulations.

Major market players included in this report are:

Cisco Systems, Inc.

Thales Group

International Business Machines Corporation (IBM)

Broadcom Inc.

Huawei Technologies Co., Ltd.

Juniper Networks, Inc.

Atos SE

Check Point Software Technologies Ltd.

Palo Alto Networks, Inc.

Fortinet, Inc.

Nokia Corporation

Microchip Technology Inc.

Hewlett Packard Enterprise Development LP

Unisys Corporation

Verizon Communications Inc.

Global Network Encryption Market Report Scope:

Historical Data – 2023, 2024

Base Year for Estimation – 2024

Forecast period - 2025-2035

Report Coverage - Revenue forecast, Company Ranking, Competitive Landscape, Growth factors, and Trends

Regional Scope - North America; Europe; Asia Pacific; Latin America; Middle East & Africa

Customization Scope - Free report customization (equivalent to up to 8 analysts' working hours) with purchase. Addition or alteration to country, regional & segment scope*

The objective of the study is to define market sizes of different segments & countries in

Global Network Encryption Market Size study & Forecast, by Encryption Type (Data Encryption, Link Encryption,...

recent years and to forecast the values for the coming years. The report is designed to incorporate both qualitative and quantitative aspects of the industry within the countries involved in the study. The report also provides detailed information about crucial aspects, such as driving factors and challenges, which will define the future growth of the market. Additionally, it incorporates potential opportunities in micro-markets for stakeholders to invest, along with a detailed analysis of the competitive landscape and product offerings of key players. The detailed segments and sub-segments of the market are explained below:

Key Takeaways:

Market Estimates & Forecast for 10 years from 2025 to 2035.

Annualized revenues and regional-level analysis for each market segment.

Detailed analysis of the geographical landscape with country-level analysis of major regions.

Competitive landscape with information on major players in the market.

Analysis of key business strategies and recommendations on future market approach.

Analysis of the competitive structure of the market.

Demand side and supply side analysis of the market.

Contents

CHAPTER 1. GLOBAL NETWORK ENCRYPTION MARKET REPORT SCOPE & METHODOLOGY

- 1.1. Research Objective
- 1.2. Research Methodology
 - 1.2.1. Forecast Model
 - 1.2.2. Desk Research
 - 1.2.3. Top Down and Bottom-Up Approach
- 1.3. Research Attributes
- 1.4. Scope of the Study
 - 1.4.1. Market Definition
 - 1.4.2. Market Segmentation
- 1.5. Research Assumption
 - 1.5.1. Inclusion & Exclusion
 - 1.5.2. Limitations
 - 1.5.3. Years Considered for the Study

CHAPTER 2. EXECUTIVE SUMMARY

- 2.1. CEO/CXO Standpoint
- 2.2. Strategic Insights
- 2.3. ESG Analysis
- 2.4. key Findings

CHAPTER 3. GLOBAL NETWORK ENCRYPTION MARKET FORCES ANALYSIS

- 3.1. Market Forces Shaping The Global Network Encryption Market (2024-2035)
- 3.2. Drivers
 - 3.2.1. surge in demand for secure communication channels
 - 3.2.2. Complex and Distributed digital ecosystems
- 3.3. Restraints
 - 3.3.1. deployment costs
- 3.4. Opportunities
 - 3.4.1. innovations in quantum-resistant encryption and zero-trust architectures

CHAPTER 4. GLOBAL NETWORK ENCRYPTION INDUSTRY ANALYSIS

- 4.1. Porter's 5 Forces Model
 - 4.1.1. Bargaining Power of Buyer
 - 4.1.2. Bargaining Power of Supplier
 - 4.1.3. Threat of New Entrants
 - 4.1.4. Threat of Substitutes
 - 4.1.5. Competitive Rivalry
- 4.2. Porter's 5 Force Forecast Model (2024-2035)
- 4.3. PESTEL Analysis
 - 4.3.1. Political
 - 4.3.2. Economical
 - 4.3.3. Social
 - 4.3.4. Technological
 - 4.3.5. Environmental
 - 4.3.6. Legal
- 4.4. Top Investment Opportunities
- 4.5. Top Winning Strategies (2025)
- 4.6. Market Share Analysis (2024-2025)
- 4.7. Global Pricing Analysis And Trends 2025
- 4.8. Analyst Recommendation & Conclusion

CHAPTER 5. GLOBAL NETWORK ENCRYPTION MARKET SIZE & FORECASTS BY ENCRYPTION TYPE 2025-2035

- 5.1. Market Overview
- 5.2. Global Network Encryption Market Performance - Potential Analysis (2025)
- 5.3. Data Encryption
 - 5.3.1. Top Countries Breakdown Estimates & Forecasts, 2024-2035
 - 5.3.2. Market size analysis, by region, 2025-2035
- 5.4. Link Encryption
 - 5.4.1. Top Countries Breakdown Estimates & Forecasts, 2024-2035
 - 5.4.2. Market size analysis, by region, 2025-2035
- 5.5. IP Encryption
 - 5.5.1. Top Countries Breakdown Estimates & Forecasts, 2024-2035
 - 5.5.2. Market size analysis, by region, 2025-2035
- 5.6. Transport Encryption
 - 5.6.1. Top Countries Breakdown Estimates & Forecasts, 2024-2035
 - 5.6.2. Market size analysis, by region, 2025-2035

CHAPTER 6. GLOBAL NETWORK ENCRYPTION MARKET SIZE & FORECASTS BY

DEPLOYMENT MODEL 2025-2035

- 6.1. Market Overview
- 6.2. Global Network Encryption Market Performance - Potential Analysis (2025)
- 6.3. On-Premise
 - 6.3.1. Top Countries Breakdown Estimates & Forecasts, 2024-2035
 - 6.3.2. Market size analysis, by region, 2025-2035
- 6.4. Cloud-Based
 - 6.4.1. Top Countries Breakdown Estimates & Forecasts, 2024-2035
 - 6.4.2. Market size analysis, by region, 2025-2035
- 6.5. Hybrid
 - 6.5.1. Top Countries Breakdown Estimates & Forecasts, 2024-2035
 - 6.5.2. Market size analysis, by region, 2025-2035

CHAPTER 7. GLOBAL NETWORK ENCRYPTION MARKET SIZE & FORECASTS BY INDUSTRY VERTICAL 2025–2035

- 7.1. Market Overview
- 7.2. Global Network Encryption Market Performance - Potential Analysis (2025)
- 7.3. IT and Telecom
 - 7.3.1. Top Countries Breakdown Estimates & Forecasts, 2024-2035
 - 7.3.2. Market size analysis, by region, 2025-2035
- 7.4. BFSI
 - 7.4.1. Top Countries Breakdown Estimates & Forecasts, 2024-2035
 - 7.4.2. Market size analysis, by region, 2025-2035
- 7.5. Healthcare
 - 7.5.1. Top Countries Breakdown Estimates & Forecasts, 2024-2035
 - 7.5.2. Market size analysis, by region, 2025-2035
- 7.6. Government
 - 7.6.1. Top Countries Breakdown Estimates & Forecasts, 2024-2035
 - 7.6.2. Market size analysis, by region, 2025-2035
- 7.7. Retail
 - 7.7.1. Top Countries Breakdown Estimates & Forecasts, 2024-2035
 - 7.7.2. Market size analysis, by region, 2025-2035
- 7.8. Manufacturing
 - 7.8.1. Top Countries Breakdown Estimates & Forecasts, 2024-2035
 - 7.8.2. Market size analysis, by region, 2025-2035
- 7.9. Energy and Utilities
 - 7.9.1. Top Countries Breakdown Estimates & Forecasts, 2024-2035

7.9.2. Market size analysis, by region, 2025-2035

CHAPTER 8. GLOBAL NETWORK ENCRYPTION MARKET SIZE & FORECASTS BY REGION 2025–2035

8.1. Growth Network Encryption Market, Regional Market Snapshot

8.2. Top Leading & Emerging Countries

8.3. North America Network Encryption Market

8.3.1. U.S. Network Encryption Market

8.3.1.1. Encryption Type breakdown size & forecasts, 2025-2035

8.3.1.2. Deployment model breakdown size & forecasts, 2025-2035

8.3.1.3. Industry vertical breakdown size & forecasts, 2025-2035

8.3.2. Canada Network Encryption Market

8.3.2.1. Encryption Type breakdown size & forecasts, 2025-2035

8.3.2.2. Deployment model breakdown size & forecasts, 2025-2035

8.3.2.3. Industry vertical breakdown size & forecasts, 2025-2035

8.4. Europe Network Encryption Market

8.4.1. UK Network Encryption Market

8.4.1.1. Encryption Type breakdown size & forecasts, 2025-2035

8.4.1.2. Deployment model breakdown size & forecasts, 2025-2035

8.4.1.3. Industry vertical breakdown size & forecasts, 2025-2035

8.4.2. Germany Network Encryption Market

8.4.2.1. Encryption Type breakdown size & forecasts, 2025-2035

8.4.2.2. Deployment model breakdown size & forecasts, 2025-2035

8.4.2.3. Industry vertical breakdown size & forecasts, 2025-2035

8.4.3. France Network Encryption Market

8.4.3.1. Encryption Type breakdown size & forecasts, 2025-2035

8.4.3.2. Deployment model breakdown size & forecasts, 2025-2035

8.4.3.3. Industry vertical breakdown size & forecasts, 2025-2035

8.4.4. Spain Network Encryption Market

8.4.4.1. Encryption Type breakdown size & forecasts, 2025-2035

8.4.4.2. Deployment model breakdown size & forecasts, 2025-2035

8.4.4.3. Industry vertical breakdown size & forecasts, 2025-2035

8.4.5. Italy Network Encryption Market

8.4.5.1. Encryption Type breakdown size & forecasts, 2025-2035

8.4.5.2. Deployment model breakdown size & forecasts, 2025-2035

8.4.5.3. Industry vertical breakdown size & forecasts, 2025-2035

8.4.6. Rest of Europe Network Encryption Market

8.4.6.1. Encryption Type breakdown size & forecasts, 2025-2035

- 8.4.6.2. Deployment model breakdown size & forecasts, 2025-2035
- 8.4.6.3. Industry vertical breakdown size & forecasts, 2025-2035
- 8.5. Asia Pacific Network Encryption Market
 - 8.5.1. China Network Encryption Market
 - 8.5.1.1. Encryption Type breakdown size & forecasts, 2025-2035
 - 8.5.1.2. Deployment model breakdown size & forecasts, 2025-2035
 - 8.5.1.3. Industry vertical breakdown size & forecasts, 2025-2035
 - 8.5.2. India Network Encryption Market
 - 8.5.2.1. Encryption Type breakdown size & forecasts, 2025-2035
 - 8.5.2.2. Deployment model breakdown size & forecasts, 2025-2035
 - 8.5.2.3. Industry vertical breakdown size & forecasts, 2025-2035
 - 8.5.3. Japan Network Encryption Market
 - 8.5.3.1. Encryption Type breakdown size & forecasts, 2025-2035
 - 8.5.3.2. Deployment model breakdown size & forecasts, 2025-2035
 - 8.5.3.3. Industry vertical breakdown size & forecasts, 2025-2035
 - 8.5.4. Australia Network Encryption Market
 - 8.5.4.1. Encryption Type breakdown size & forecasts, 2025-2035
 - 8.5.4.2. Deployment model breakdown size & forecasts, 2025-2035
 - 8.5.4.3. Industry vertical breakdown size & forecasts, 2025-2035
 - 8.5.5. South Korea Network Encryption Market
 - 8.5.5.1. Encryption Type breakdown size & forecasts, 2025-2035
 - 8.5.5.2. Deployment model breakdown size & forecasts, 2025-2035
 - 8.5.5.3. Industry vertical breakdown size & forecasts, 2025-2035
 - 8.5.6. Rest of APAC Network Encryption Market
 - 8.5.6.1. Encryption Type breakdown size & forecasts, 2025-2035
 - 8.5.6.2. Deployment model breakdown size & forecasts, 2025-2035
 - 8.5.6.3. Industry vertical breakdown size & forecasts, 2025-2035
- 8.6. Latin America Network Encryption Market
 - 8.6.1. Brazil Network Encryption Market
 - 8.6.1.1. Encryption Type breakdown size & forecasts, 2025-2035
 - 8.6.1.2. Deployment model breakdown size & forecasts, 2025-2035
 - 8.6.1.3. Industry vertical breakdown size & forecasts, 2025-2035
 - 8.6.2. Mexico Network Encryption Market
 - 8.6.2.1. Encryption Type breakdown size & forecasts, 2025-2035
 - 8.6.2.2. Deployment model breakdown size & forecasts, 2025-2035
 - 8.6.2.3. Industry vertical breakdown size & forecasts, 2025-2035
- 8.7. Middle East and Africa Network Encryption Market
 - 8.7.1. UAE Network Encryption Market
 - 8.7.1.1. Encryption Type breakdown size & forecasts, 2025-2035

- 8.7.1.2. Deployment model breakdown size & forecasts, 2025-2035
- 8.7.1.3. Industry vertical breakdown size & forecasts, 2025-2035
- 8.7.2. Saudi Arabia (KSA) Network Encryption Market
 - 8.7.2.1. Encryption Type breakdown size & forecasts, 2025-2035
 - 8.7.2.2. Deployment model breakdown size & forecasts, 2025-2035
 - 8.7.2.3. Industry vertical breakdown size & forecasts, 2025-2035
- 8.7.3. South Africa Network Encryption Market
 - 8.7.3.1. Encryption Type breakdown size & forecasts, 2025-2035
 - 8.7.3.2. Deployment model breakdown size & forecasts, 2025-2035
 - 8.7.3.3. Industry vertical breakdown size & forecasts, 2025-2035

CHAPTER 9. COMPETITIVE INTELLIGENCE

- 9.1. Top Market Strategies
- 9.2. Cisco Systems, Inc.
 - 9.2.1. Company Overview
 - 9.2.2. Key Executives
 - 9.2.3. Company Snapshot
 - 9.2.4. Financial Performance (Subject to Data Availability)
 - 9.2.5. Product/Services Port
 - 9.2.6. Recent Development
 - 9.2.7. Market Strategies
 - 9.2.8. SWOT Analysis
- 9.3. Thales Group
- 9.4. International Business Machines Corporation (IBM)
- 9.5. Broadcom Inc.
- 9.6. Huawei Technologies Co., Ltd.
- 9.7. Juniper Networks, Inc.
- 9.8. Atos SE
- 9.9. Check Point Software Technologies Ltd.
- 9.10. Palo Alto Networks, Inc.
- 9.11. Fortinet, Inc.
- 9.12. Nokia Corporation
- 9.13. Microchip Technology Inc.
- 9.14. Hewlett Packard Enterprise Development LP
- 9.15. Unisys Corporation
- 9.16. Verizon Communications Inc.

List Of Tables

LIST OF TABLES

- Table 1. Global Network Encryption Market, Report Scope
- Table 2. Global Network Encryption Market Estimates & Forecasts By Region 2024–2035
- Table 3. Global Network Encryption Market Estimates & Forecasts By Segment 2024–2035
- Table 4. Global Network Encryption Market Estimates & Forecasts By Segment 2024–2035
- Table 5. Global Network Encryption Market Estimates & Forecasts By Segment 2024–2035
- Table 6. Global Network Encryption Market Estimates & Forecasts By Segment 2024–2035
- Table 7. Global Network Encryption Market Estimates & Forecasts By Segment 2024–2035
- Table 8. U.S. Network Encryption Market Estimates & Forecasts, 2024–2035
- Table 9. Canada Network Encryption Market Estimates & Forecasts, 2024–2035
- Table 10. UK Network Encryption Market Estimates & Forecasts, 2024–2035
- Table 11. Germany Network Encryption Market Estimates & Forecasts, 2024–2035
- Table 12. France Network Encryption Market Estimates & Forecasts, 2024–2035
- Table 13. Spain Network Encryption Market Estimates & Forecasts, 2024–2035
- Table 14. Italy Network Encryption Market Estimates & Forecasts, 2024–2035
- Table 15. Rest Of Europe Network Encryption Market Estimates & Forecasts, 2024–2035
- Table 16. China Network Encryption Market Estimates & Forecasts, 2024–2035
- Table 17. India Network Encryption Market Estimates & Forecasts, 2024–2035
- Table 18. Japan Network Encryption Market Estimates & Forecasts, 2024–2035
- Table 19. Australia Network Encryption Market Estimates & Forecasts, 2024–2035
- Table 20. South Korea Network Encryption Market Estimates & Forecasts, 2024–2035

.....

List Of Figures

LIST OF FIGURES

- Fig 1. Global Network Encryption Market, Research Methodology
 - Fig 2. Global Network Encryption Market, Market Estimation Techniques
 - Fig 3. Global Market Size Estimates & Forecast Methods
 - Fig 4. Global Network Encryption Market, Key Trends 2025
 - Fig 5. Global Network Encryption Market, Growth Prospects 2024–2035
 - Fig 6. Global Network Encryption Market, Porter's Five Forces Model
 - Fig 7. Global Network Encryption Market, Pestel Analysis
 - Fig 8. Global Network Encryption Market, Value Chain Analysis
 - Fig 9. Network Encryption Market By Application, 2025 & 2035
 - Fig 10. Network Encryption Market By Segment, 2025 & 2035
 - Fig 11. Network Encryption Market By Segment, 2025 & 2035
 - Fig 12. Network Encryption Market By Segment, 2025 & 2035
 - Fig 13. Network Encryption Market By Segment, 2025 & 2035
 - Fig 14. North America Network Encryption Market, 2025 & 2035
 - Fig 15. Europe Network Encryption Market, 2025 & 2035
 - Fig 16. Asia Pacific Network Encryption Market, 2025 & 2035
 - Fig 17. Latin America Network Encryption Market, 2025 & 2035
 - Fig 18. Middle East & Africa Network Encryption Market, 2025 & 2035
 - Fig 19. Global Network Encryption Market, Company Market Share Analysis (2025)
-

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