

5G Network Security Market - Strategic Insights and Forecasts (2026-2031)

<https://marketpublishers.com/r/54C17F9738A2EN.html>

Date: February 2026

Pages: 142

Price: US\$ 3,950.00 (Single User License)

ID: 54C17F9738A2EN

Abstracts

The Global 5G Network Security market is forecast to grow at a CAGR of 15.4%, reaching USD 13.9 billion in 2031 from USD 6.8 billion in 2026.

The global 5G network security market is positioned as a critical enabler of next generation digital infrastructure. As telecommunications networks evolve toward ultra low latency connectivity, massive device density, and virtualized architectures, security frameworks are becoming foundational to system reliability. Governments and enterprises are investing in advanced protection layers to safeguard data, infrastructure, and service continuity. The rapid expansion of digital ecosystems, including connected devices, edge computing environments, and software defined networks, is reshaping how organizations approach cybersecurity. As 5G deployment accelerates across industries, security capabilities are moving from compliance driven functions to strategic infrastructure priorities.

Market Drivers

The primary growth driver is the expansion of 5G network infrastructure worldwide. Higher network complexity increases exposure to cyber risks, requiring stronger protection for core networks, radio access networks, and service layers. Rising adoption of IoT devices is also expanding the attack surface, driving demand for scalable security platforms capable of handling massive machine communications.

Enterprises are adopting private and hybrid 5G environments for industrial automation, smart manufacturing, and connected mobility. These environments demand advanced monitoring, authentication, and encryption technologies. Regulatory requirements and data protection mandates are also encouraging telecom operators and service providers

to strengthen security frameworks.

Increasing digital transformation across sectors such as healthcare, transportation, and energy further amplifies the need for resilient network infrastructure. The shift toward cloud native and software defined networking models adds new security challenges, reinforcing long term market growth.

Market Restraints

Despite strong demand, the market faces structural challenges. The high cost of implementing advanced security architectures can limit adoption among smaller operators and emerging markets. Integration complexity also remains significant, particularly in environments combining legacy systems with virtualized network components.

Skill shortages in cybersecurity and telecom infrastructure management may slow deployment of advanced security solutions. In addition, rapidly evolving threat landscapes require continuous technology upgrades, increasing operational expenditure for network operators.

Technology and Segment Insights

The market includes hardware, software, and services supporting network protection across multiple layers. Security solutions cover application protection, cloud security, data protection, and network infrastructure defense.

Deployment models include on premise and cloud based architectures. End users include telecom operators, enterprises, and government organizations. Service offerings such as consulting, monitoring, and managed security services are gaining importance as operators seek continuous threat detection and response capabilities.

Network slicing, edge computing, and virtualization technologies are shaping solution development. Vendors are integrating artificial intelligence and automated threat detection into security platforms to support real time response.

Competitive and Strategic Outlook

The competitive landscape is defined by telecom equipment providers, cybersecurity vendors, and integrated network solution companies. Strategic partnerships between

infrastructure providers and security specialists are increasing as organizations seek unified solutions.

Vendors are investing in platform integration, automation, and analytics driven security management. Managed services and subscription based delivery models are expanding to address operational complexity. Geographic expansion and industry specific solutions remain key strategic priorities.

Key Takeaways

The global 5G network security market is evolving into a core component of digital infrastructure. Rising connectivity demands and expanding cyber risks will sustain investment in advanced protection technologies. Long term growth will depend on scalable architectures, integration capabilities, and continuous innovation in threat management.

Key Benefits of this Report

Insightful Analysis: Gain detailed market insights across regions, customer segments, policies, socio-economic factors, consumer preferences, and industry verticals.

Competitive Landscape: Understand strategic moves by key players to identify optimal market entry approaches.

Market Drivers and Future Trends: Assess major growth forces and emerging developments shaping the market.

Actionable Recommendations: Support strategic decisions to unlock new revenue streams.

Caters to a Wide Audience: Suitable for startups, research institutions, consultants, SMEs, and large enterprises.

What businesses use our reports for

Industry and market insights, opportunity assessment, product demand forecasting, market entry strategy, geographical expansion, capital investment decisions, regulatory

analysis, new product development, and competitive intelligence.

Report Coverage

Historical data from 2021 to 2025 and forecast data from 2026 to 2031

Growth opportunities, challenges, supply chain outlook, regulatory framework, and trend analysis

Competitive positioning, strategies, and market share evaluation

Revenue growth and forecast assessment across segments and regions

Company profiling including strategies, products, financials, and key developments

Contents

1. INTRODUCTION

- 1.1. Market Overview
- 1.2. Market Definition
- 1.3. Market Segmentation

2. RESEARCH METHODOLOGY

- 2.1. Research Data
- 2.2. Assumptions

3. EXECUTIVE SUMMARY

- 3.1. Research Highlights

4. MARKET DYNAMICS

- 4.1. Market Drivers
- 4.2. Market Restraints
- 4.3. Bandwidth Availability
- 4.4. Number of Users

5. GOVERNMENT REGULATIONS/POLICIES

6. 5G NETWORK SECURITY MARKET, BY FORM FACTOR

- 6.1. Introduction
- 6.2. Physical
- 6.3. Virtual
- 6.4. SaaS

7. 5G NETWORK SECURITY MARKET, BY TYPE

- 7.1. Introduction
- 7.2. Firewall
- 7.3. SSE
- 7.4. SWG

7.5. WAF

7.6. Others

8. 5G NETWORK SECURITY MARKET, BY INDUSTRY

8.1. Introduction

8.2. Banking

8.3. Telecommunication

8.4. Government

8.5. Manufacturing

8.6. Others

9. 5G NETWORK SECURITY MARKET, BY GEOGRAPHY

9.1. Introduction

9.2. Americas

9.2.1. United States

9.2.2. Others

9.3. Europe, Middle East, and Africa

9.3.1. Germany

9.3.2. UK

9.3.3. Others

9.4. Asia Pacific

9.4.1. China

9.4.2. Japan

9.4.3. South Korea

9.4.4. Others

10. RECENT DEVELOPMENT AND INVESTMENTS

11. COMPETITIVE ENVIRONMENT AND ANALYSIS

11.1. Major Players and Strategy Analysis

11.2. Market Share Analysis

12. COMPANY PROFILES

12.1. Nokia Corporation

12.2. Palo Alto Networks

12.3. F5, Inc.

12.4. Fortinet

12.5. Mobileum Inc.

12.6. SecurityGen

12.7. AT&T Inc.

I would like to order

Product name: 5G Network Security Market - Strategic Insights and Forecasts (2026-2031)

Product link: <https://marketpublishers.com/r/54C17F9738A2EN.html>

Price: US\$ 3,950.00 (Single User License / Electronic Delivery)

If you want to order Corporate License or Hard Copy, please, contact our Customer Service:

info@marketpublishers.com

Payment

To pay by Credit Card (Visa, MasterCard, American Express, PayPal), please, click button on product page <https://marketpublishers.com/r/54C17F9738A2EN.html>