

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

<https://marketpublishers.com/r/U15C0A788152EN.html>

Date: February 2026

Pages: 88

Price: US\$ 2,850.00 (Single User License)

ID: U15C0A788152EN

Abstracts

The US 5G Network Security market is forecast to grow at a CAGR of 7.0%, reaching USD 4.79 billion in 2031 from USD 3.42 billion in 2026.

The US 5G Network Security market is strategically positioned at the intersection of next-generation mobile technology and cybersecurity. The nationwide rollout of 5G Standalone (SA) architecture, combined with government mandates such as the National Strategy to Secure 5G and the John S. McCain National Defense Authorization Act, is driving significant adoption of advanced security solutions. Macro drivers include proliferation of enterprise private 5G networks, increasing reliance on ultra-low latency applications, and the scarcity of in-house telecom security expertise, which accelerates demand for Managed Security Services. These trends are reshaping the market from traditional perimeter-based protection toward cloud-native, zero-trust security frameworks.

Drivers

The migration to 5G SA core architecture is the primary technical catalyst. Unlike Non-Standalone (NSA) networks, SA introduces fully cloud-native environments with network slicing and Service-Based Architecture (SBA), demanding specialized Cloud Security and Virtualization Security. Sophisticated AI-driven cyber threats further drive demand for predictive and automated security platforms such as Extended Detection and Response (XDR) systems. The rapid commercialization of enterprise 5G networks in sectors such as manufacturing and logistics creates high-growth opportunities for Security Analytics & Monitoring and Edge/MEC Security solutions. Organizations increasingly require real-time monitoring and threat detection to secure mission-critical industrial and operational applications, solidifying demand for advanced, low-latency

security platforms.

Restraints

The most significant market constraint is the shortage of skilled telco security professionals. This talent gap limits in-house deployment and management of complex 5G security solutions, accelerating reliance on vendor-provided Managed Security Services (MSS). Regulatory compliance adds further complexity. Federal guidance on Zero Trust architectures and security standards for government contracts imposes rigorous requirements on security solutions. Additionally, integration with legacy IT/OT infrastructures and the fragmented nature of enterprise networks creates operational challenges that can slow adoption and increase solution costs.

Technology and Segment Insights

The market is segmented by solutions/services, deployment mode, network architecture, and end-user. Key solution areas include Firewalls & Threat Protection, DDoS Protection, IAM, Security Analytics & Monitoring, Cloud Security, and Virtualization Security. Managed Security Services dominate the services segment due to the scarcity of in-house expertise. Cloud-based deployments are preferred for scalability, but on-premises solutions remain critical for government and defense networks. Network architecture segments include 5G Core Security, RAN Security, Edge/MEC Security, and Transport Network Security. Enterprise 5G Networks represent a high-growth end-user segment, driven by private 5G deployments in manufacturing, logistics, and other latency-sensitive applications.

Competitive and Strategic Outlook

The US 5G Network Security market is highly competitive, led by established cybersecurity firms and legacy networking providers adapting to the 5G paradigm. Key players include Palo Alto Networks, Cisco Systems, and Fortinet, focusing on platform-based, converged security solutions. Strategic initiatives include cloud-native Zero Trust frameworks, SASE deployments, and partnerships for managed security offerings. Recent developments such as Palo Alto Networks' Prisma SASE 5G launch and NTT DATA collaborations highlight the emphasis on hybrid, low-latency security solutions that integrate with enterprise OT and IoT networks. Competitive success hinges on providing verifiable, compliant, and scalable security solutions that address the entire 5G lifecycle.

The US 5G Network Security market is set for steady growth driven by 5G SA deployment, federal security mandates, and enterprise adoption of private 5G networks. While talent shortages and regulatory compliance present challenges, the shift toward cloud-native, zero-trust, and predictive security solutions underpins market expansion. Demand for Edge/MEC, RAN, and Core security platforms ensures sustained investment through 2031, reinforcing the strategic importance of secure 5G adoption in both public and private sectors.

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: 2021-2024, **Base Year:** 2025, **Forecast Years:** 2026-2031

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. EXECUTIVE SUMMARY

2. MARKET SNAPSHOT

- 2.1. Market Overview
- 2.2. Market Definition
- 2.3. Scope of the Study
- 2.4. Market Segmentation

3. BUSINESS LANDSCAPE

- 3.1. Market Drivers
- 3.2. Market Restraints
- 3.3. Market Opportunities
- 3.4. Porter's Five Forces Analysis
- 3.5. Industry Value Chain Analysis
- 3.6. Policies and Regulations
- 3.7. Strategic Recommendations

4. TECHNOLOGICAL OUTLOOK

5. USA 5G NETWORK SECURITY MARKET BY SOLUTIONS/SERVICES

- 5.1. Introduction
- 5.2. Solutions
 - 5.2.1. Firewalls & Threat Protection
 - 5.2.2. DDoS Protection
 - 5.2.3. Identity & Access Management (IAM)
 - 5.2.4. Network Encryption & VPNs
 - 5.2.5. Security Analytics & Monitoring
 - 5.2.6. Cloud Security & Virtualization Security
- 5.3. Services
 - 5.3.1. Managed Security Services (MSS)
 - 5.3.2. Consulting & Integration
 - 5.3.3. Security Testing & Compliance

6. USA 5G NETWORK SECURITY MARKET BY DEPLOYMENT

- 6.1. Introduction
- 6.2. On-Premise
- 6.3. Cloud-Based

7. USA 5G NETWORK SECURITY MARKET BY NETWORK ARCHITECTURE

- 7.1. Introduction
- 7.2. 5G Security
- 7.3. RAN Security
- 7.4. Edge/MEC Security
- 7.5. Transport Network Security

8. USA 5G NETWORK SECURITY MARKET BY END USER

- 8.1. Introduction
- 8.2. Telecom Operators
- 8.3. Government & Defense Networks
- 8.4. Enterprise 5G Networks

9. COMPETITIVE ENVIRONMENT AND ANALYSIS

- 9.1. Major Players and Strategy Analysis
- 9.2. Market Share Analysis
- 9.3. Mergers, Acquisitions, Agreements, and Collaborations
- 9.4. Competitive Dashboard

10. COMPANY PROFILES

- 10.1. Palo Alto Networks
- 10.2. Cisco Systems
- 10.3. Fortinet
- 10.4. AT&T
- 10.5. F5 Networks
- 10.6. Akamai Technologies
- 10.7. Juniper Networks
- 10.8. IBM Corporation
- 10.9. Zscaler
- 10.10. Qualys

11. RESEARCH METHODOLOGY

I would like to order

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

Product link: <https://marketpublishers.com/r/U15C0A788152EN.html>

Price: US\$ 2,850.00 (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/U15C0A788152EN.html>