

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

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## Abstracts

The UK 5G Network Security market is forecast to grow at a CAGR of 6.6%, reaching USD 926.6 million in 2031 from USD 673.0 million in 2026.

The UK 5G Network Security market is strategically influenced by government mandates, enterprise adoption, and the transition to software-defined networking. The Telecommunications (Security) Act 2021 and the 5G Supply Chain Diversification Strategy establish legally binding requirements and promote Open RAN adoption, driving structured demand for advanced security solutions. Macro-level drivers include the shift to cloud-native 5G cores, increasing industrial private 5G networks, and the growing complexity of distributed edge environments. These factors collectively expand the attack surface and elevate the strategic importance of Security Analytics & Monitoring, Cloud Security, and Identity & Access Management (IAM) across telecom and enterprise networks.

### Drivers

Regulatory mandates are the primary market driver. The Telecommunications (Security) Act 2021 imposes legally binding duties on public telecom operators, creating inelastic demand for Security Testing & Compliance, Next-Generation Firewalls, and DDoS Protection. The UK government's removal of high-risk vendors by 2027 necessitates multi-vendor, interoperable RAN Security solutions, generating demand for consulting and integration services. Enterprise adoption of private 5G networks in critical national infrastructure, including manufacturing and defense, further fuels demand for Edge/MEC Security, IAM, and advanced security monitoring tools. These drivers position 5G network security as both a regulatory requirement and strategic investment.

## Restraints

A major constraint is the acute shortage of cybersecurity talent in UK telecoms and enterprise SOCs. This gap increases reliance on Managed Security Services (MSS), which can slow the pace of in-house capability development. Open RAN architectures, while diversifying supply chains, introduce interoperability challenges and expand attack surfaces, increasing operational complexity. Additionally, compliance with National Cyber Security Centre (NCSC) guidance requires continuous updates and validation against emerging threats, which can raise solution costs and integration timelines.

## Technology and Segment Insights

The market is segmented by solutions/services, deployment mode, network architecture, and end-user. Solutions include Firewalls & Threat Protection, DDoS Protection, IAM, Network Encryption & VPNs, Security Analytics & Monitoring, and Cloud & Virtualization Security. Services primarily comprise MSS, Consulting & Integration, and Security Testing & Compliance. Deployment spans on-premise and cloud-based models. Network architecture segments include 5G Core Security, RAN Security, Edge/MEC Security, and Transport Network Security. Enterprise 5G Networks, particularly in critical national infrastructure, drive demand for highly secure, low-latency, and deeply integrated security solutions.

## Competitive and Strategic Outlook

The UK 5G Network Security market is highly competitive, shaped by regulatory compliance and hybrid network complexities. Key players include Cisco, Palo Alto Networks, and Darktrace. Cisco emphasizes end-to-end security for the 5G lifecycle with integrated Secure Portfolio and SecureX platforms. Palo Alto Networks focuses on Zero Trust frameworks and cloud-native core security, bolstered by its acquisition of CyberArk to strengthen IAM capabilities. Darktrace leverages AI-driven threat detection for autonomous response and enhanced Edge/MEC protection. Market success depends on platform integration, regulatory alignment, and advanced threat intelligence capabilities.

The UK 5G Network Security market is set for steady growth, supported by strong regulatory mandates, industrial private 5G deployments, and a shift to software-defined, cloud-native networks. Talent shortages and interoperability challenges persist but are offset by mandatory compliance requirements and the strategic need for secure, low-latency 5G infrastructure. Edge/MEC Security, RAN Security, and IAM remain critical

growth segments through 2031, ensuring continued investment in secure 5G network operations.

### 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

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