

5G Network Slicing Market Forecasts to 2034 – Analysis By Component (Solutions and Services), Network Slicing Type, Network Architecture, Application, End User, Industry Vertical, and By Geography

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Abstracts

According to Statistics MRC, the Global 5G Network Slicing Market is accounted for \$3.9 billion in 2026 and is expected to reach \$70.3 billion by 2034 growing at a CAGR of 43.5% during the forecast period. 5G network slicing is a transformative network architecture that enables the creation of multiple virtual, independent networks on a shared physical infrastructure, each optimized for specific service requirements including bandwidth, latency, reliability, and security. This technology enables communication service providers to offer tailored connectivity services for diverse applications including enhanced mobile broadband, ultra-reliable low-latency communications, massive machine-type communications, private 5G and enterprise connectivity, mission-critical communications, industrial automation and control, connected and autonomous vehicles, and immersive media and entertainment. The market serves communication service providers, enterprises, and government and public sector organizations.

Market Dynamics:

Driver:

Growing demand for differentiated and customized connectivity services

The increasing need for connectivity services with diverse performance requirements across industries is a primary driver for the 5G network slicing market. Different applications have varying demands for bandwidth, latency, reliability, and security that

cannot be met by one-size-fits-all network architectures. Network slicing enables communication service providers to offer customized network instances tailored to specific use cases, creating new revenue streams and service differentiation. Enterprises across manufacturing, healthcare, automotive, and other sectors are seeking dedicated network slices to support their digital transformation initiatives. As 5G networks expand and use cases diversify, demand for network slicing capabilities continues growing, supporting sustained market expansion across all segments.

Restraint:

Technical complexity and standardization challenges

The significant technical complexity of implementing network slicing and ongoing standardization challenges represent a major restraint for the market. Network slicing requires sophisticated orchestration, automation, and management capabilities across the entire network stack, from radio access to core and transport networks. Ensuring end-to-end service quality, isolation, and security across slices demands advanced technical capabilities. Standardization of slicing interfaces and interoperability across multi-vendor environments remains ongoing. The complexity of integrating slicing capabilities with existing network operations and business support systems adds implementation challenges. These technical barriers may slow deployment, particularly for smaller operators with limited technical resources.

Opportunity:

Expansion of enterprise and industry vertical applications

The growing adoption of network slicing across enterprise and industry vertical applications presents significant opportunities for market expansion. Industries including manufacturing, healthcare, logistics, energy, and automotive are increasingly leveraging network slicing for specific use cases including remote monitoring, autonomous operations, real-time analytics, and mission-critical communications. The ability to provide dedicated, secure network instances with guaranteed performance is enabling new business models. As enterprise digital transformation accelerates and 5G private network adoption grows, demand for network slicing in enterprise applications expands, creating new market opportunities across diverse industry verticals.

Threat:

Competition from alternative network virtualization technologies

Competition from alternative network virtualization technologies and private network solutions poses significant threats to the network slicing market. Enterprises may deploy

private 5G networks with dedicated infrastructure rather than network slices on public networks. Alternative technologies including edge computing, network function virtualization, and software-defined networking provide virtualization capabilities. Hybrid approaches combining multiple technologies may reduce reliance on network slicing. This competition may affect market growth, particularly in enterprise segments where alternatives offer perceived advantages in control or simplicity.

Covid-19 Impact:

The COVID-19 pandemic accelerated 5G network slicing market development as digital transformation and remote operations intensified. The need for reliable, low-latency connectivity for remote monitoring, telemedicine, and distributed operations highlighted the importance of network slicing capabilities. Communication service providers accelerated network virtualization and automation investments to enable slicing capabilities. Government and enterprise investment in digital infrastructure increased. Post-pandemic, sustained digital transformation momentum and 5G network expansion have supported network slicing market growth, with operators continuing to develop and commercialize slicing offerings.

The Enhanced Mobile Broadband (eMBB) segment is expected to be the largest during the forecast period

The Enhanced Mobile Broadband (eMBB) segment is expected to account for the largest market share during the forecast period, driven by the massive demand for high-speed mobile connectivity for video streaming, gaming, virtual reality, and other bandwidth-intensive applications. eMBB represents the foundational 5G use case, enabling significantly higher data rates and capacity than previous generations. The segment benefits from large consumer and enterprise demand for enhanced mobile experiences. As 5G networks expand globally and subscriber adoption grows, eMBB traffic volumes drive significant slicing demand. With broad applicability across consumer and enterprise segments, eMBB maintains the largest application segment share throughout the forecast period.

The Enterprises segment is expected to have the highest CAGR during the forecast period

Over the forecast period, the Enterprises segment is predicted to witness the highest growth rate, fueled by increasing enterprise adoption of 5G network slicing for Industry 4.0, private 5G deployments, and specialized connectivity requirements across manufacturing, logistics, healthcare, and other sectors. Enterprises are leveraging network slicing for dedicated, secure, and reliable connectivity for critical applications. The segment benefits from growing enterprise digital transformation and IoT adoption. As enterprises recognize the value of customized connectivity with guaranteed performance, slicing adoption in enterprise environments accelerates, delivering the fastest end-user segment growth.

Region with largest share:

During the forecast period, the North America region is expected to hold the largest market share, supported by early 5G deployment, strong enterprise demand for network slicing, and the presence of major communication service providers and technology vendors. The United States leads regional growth with substantial investment in 5G networks and network virtualization. Strong enterprise digital transformation and Industry 4.0 adoption drive slicing demand. Well-established technology ecosystem supports innovation and commercialization. With early adoption and technology leadership, North America maintains its dominant market position.

Region with highest CAGR:

Over the forecast period, the Asia-Pacific region is anticipated to exhibit the highest CAGR, driven by massive 5G network deployment, rapid digital transformation, and strong government support for advanced connectivity across China, South Korea, Japan, India, and Southeast Asia. The region's large and growing industrial base creates substantial demand for network slicing across manufacturing, logistics, and enterprise sectors. Government policies promoting 5G adoption and Industry 4.0 are accelerating slicing development. Major network equipment vendors and operators in the region are actively commercializing slicing offerings. As 5G penetration and enterprise adoption continue expanding, Asia Pacific delivers the fastest network slicing market growth globally.

Key players in the market

Some of the key players in 5G Network Slicing Market include Telefonaktiebolaget LM Ericsson, Nokia Corporation, Huawei Technologies Co., Ltd., Cisco Systems, Inc., Samsung Electronics Co., Ltd., ZTE Corporation, Amdocs Limited, NEC Corporation, Mavenir Systems, Inc., Oracle Corporation, Hewlett Packard Enterprise Company, Juniper Networks, Inc., VMware, Inc., Microsoft Corporation, AT&T Inc., Verizon Communications Inc., Deutsche Telekom AG, and Vodafone Group plc.

Key Developments:

In July 2026, Huawei collaborated with China Unicom Beijing to deploy a citywide 5G-A network incorporating deterministic slicing capabilities to support millisecond-level uplink transmission for mobile AI and robotics applications.

In June 2026, Ericsson released its Mobility Report highlighting that commercial 5G Standalone (SA) network slicing offerings rose to 84 worldwide, as telecom operators increasingly monetize differentiated quality of service (QoS) across consumer and enterprise tiers.

In February 2026, Nokia partnered with Amazon Web Services (AWS) to launch an agentic AI-powered 5G network slicing solution on live networks with operators like Orange and du, enabling autonomous intent-based traffic prioritization during unexpected demand surges.

In February 2026, Cisco expanded its Mobility Services Platform to deliver policy-driven private 5G network slicing directly tied into enterprise SD-WAN architectures.

Components Covered:

Solutions

Services

Network Slicing Types Covered:

RAN Slicing

Core Network Slicing

Edge Slicing

End-to-End Network Slicing

Network Architectures Covered:

Standalone (SA)

Non-Standalone (NSA)

Applications Covered:

Enhanced Mobile Broadband (eMBB)

Ultra-Reliable Low-Latency Communications (URLLC)

Massive Machine-Type Communications (mMTC)

Private 5G and Enterprise Connectivity

Mission-Critical Communications

Industrial Automation and Control

Connected and Autonomous Vehicles

Immersive Media and Entertainment

End Users Covered:

Communication Service Providers

Enterprises

Government and Public Sector Organizations

Industry Verticals Covered:

Manufacturing

Automotive and Transportation

Healthcare

Energy and Utilities

Media and Entertainment

Retail

Banking, Financial Services and Insurance (BFSI)

Government and Public Safety

Agriculture

Other Industry Verticals

Regions Covered:

North America

United States

Canada

Mexico

Europe

United Kingdom

Germany

France

Italy

Spain

Netherlands

Belgium

Sweden

Switzerland

Poland

Rest of Europe

Asia Pacific

China

Japan

India

South Korea

Australia

Indonesia

Thailand

Malaysia

Singapore

Vietnam

Rest of Asia Pacific

South America

Brazil

Argentina

Colombia

Chile

Peru

Rest of South America

Rest of the World (RoW)

Middle East

Saudi Arabia

United Arab Emirates

Qatar

Israel

Rest of Middle East

Africa

South Africa

Egypt

Morocco

Rest of Africa

What our report offers:

Market share assessments for the regional and country-level segments

Strategic recommendations for the new entrants

Covers Market data for the years 2023, 2024, 2025, 2026, 2027, 2028, 2030, 2032 and 2034

Market Trends (Drivers, Constraints, Opportunities, Threats, Challenges, Investment Opportunities, and recommendations)

Strategic recommendations in key business segments based on the market estimations

Competitive landscaping mapping the key common trends

Company profiling with detailed strategies, financials, and recent developments

Supply chain trends mapping the latest technological advancements

Free Customization Offerings:

All the customers of this report will be entitled to receive one of the following free customization options:

Company Profiling

Comprehensive profiling of additional market players (up to 3)

SWOT Analysis of key players (up to 3)

Regional Segmentation

Market estimations, Forecasts and CAGR of any prominent country as per the client's interest (Note: Depends on feasibility check)

Competitive Benchmarking

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