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Global 5G Edge Computing Market Size Study & Forecast, by Component, Deployment Model, Vertical, Enterprise Size, Application and Regional Forecasts 2025-2035

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Abstracts

The Global 5G Edge Computing Market is valued at approximately USD 2.41 billion in 2024 and is expected to grow at a compound annual growth rate of more than 13.80% over the forecast period 2025-2035. In a digital-first world where latency defines user experience and responsiveness dictates innovation, 5G edge computing has surfaced as the catalyst transforming enterprise infrastructure and service delivery. By decentralizing data processing and pushing computational power closer to the edge, this revolutionary architecture bridges the performance gap between cloud and device, empowering real-time analytics, ultra-low latency, and autonomous operations across multiple industries. The explosive demand for ultra-fast network performance and the proliferation of connected devices—from autonomous drones and robotics to immersive gaming and smart healthcare—continue to amplify the demand for edge intelligence integrated with 5G.

The growing convergence of AI, IoT, and 5G has significantly reshaped operational dynamics across sectors such as manufacturing, logistics, and healthcare. Enterprises are transitioning from centralized models to hybrid environments that facilitate localized computing at the edge. This migration not only ensures operational resilience but also reduces backhaul traffic and enhances data privacy. The accelerating adoption of Industry 4.0 and AI-driven automation further propels the market as enterprises deploy 5G edge infrastructure to support mission-critical workloads and latency-sensitive applications like autonomous vehicles and remote surgery. While challenges such as high deployment costs, infrastructure interoperability, and security risks remain pertinent, strategic alliances between telecom providers, cloud hyperscalers, and edge

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solution vendors are gradually overcoming these bottlenecks.

Regionally, North America commands a leading position in the global 5G edge computing market, underpinned by robust investments in 5G networks, early adoption of edge-centric technologies, and active collaboration between telecom and tech firms. The U.S. has especially emerged as a hub for smart city trials and autonomous vehicle initiatives that rely on edge-enabled 5G networks. Meanwhile, Europe is fostering a progressive edge ecosystem, spurred by government-backed digital infrastructure programs and regulatory support for data localization. The Asia Pacific region, led by China, Japan, and South Korea, is witnessing the fastest growth, driven by rapid urbanization, rising consumer tech penetration, and aggressive 5G rollouts. Countries in APAC are actively investing in smart manufacturing, telemedicine, and edge AI applications, unlocking new frontiers for market expansion.

Major market player included in this report are:

Amazon Web Services, Inc.

AT&T Inc.

Cisco Systems, Inc.

IBM Corporation

Huawei Technologies Co., Ltd.

Google LLC

Intel Corporation

Nokia Corporation

Microsoft Corporation

VMware, Inc.

Samsung Electronics Co., Ltd.

Hewlett Packard Enterprise

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Ericsson

Qualcomm Technologies, Inc.

Tata Communications Ltd.

Global 5G Edge Computing 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 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 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:

By Component:

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- Hardware
- Software
- Services

By Deployment Model:

- On-Premises
- Cloud
- Hybrid

By Vertical:

- Manufacturing
- Healthcare
- Transportation
- Retail
- Utilities

By Enterprise Size:

- Small and Medium Enterprises (SMEs)
- Large Enterprises

By Application:

- Autonomous Vehicles

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Augmented Reality/Virtual Reality (AR/VR)

Industrial Automation

Smart Cities

Video Analytics

By Region:

North America

U.S.

Canada

Europe

UK

Germany

France

Spain

Italy

Rest of Europe

Asia Pacific

China

India

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- Japan
- Australia
- South Korea
- Rest of Asia Pacific

Latin America

- Brazil
- Mexico

Middle East & Africa

- UAE
- Saudi Arabia
- South Africa
- Rest of Middle East & Africa

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 geographical landscape with Country level analysis of major regions.
- Competitive landscape with information on major players in the market.

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

Analysis of competitive structure of the market.

Demand side and supply side analysis of the market.

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CHAPTER 11. COMPETITIVE INTELLIGENCE

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