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5G Enterprise Market Size, Share & Trends Analysis Report By Network Type (Hybrid Networks, Private Networks), By Infrastructure, By Spectrum, By Frequency Band, By Organization Size, By Vertical, By Region, And Segment Forecasts, 2025 - 2030

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Abstracts

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5G Enterprise Market Size & Trends

The global 5G enterprise market size was estimated at USD 5.96 billion in 2024 and is projected to grow at a CAGR of 31.0% from 2025 to 2030. Governments are positioning 5G as the foundation of next-generation economic competitiveness, investing heavily to enable enterprise-led digital transformation.

These national strategies are creating an ecosystem that empowers businesses to integrate ultra-reliable low-latency communications (URLLC) and massive machine-type communications (mMTC) into their operations. For instance, Singapore’s government, through the Research, Innovation and Enterprise 2025 (RIE2025) plan, allocated USD 18.1 billion (SGD 25 billion) to support transformative technologies such as 5G. As a result, the nation now boasts over 95% standalone 5G coverage, positioning it as a leading testbed for enterprise innovation across healthcare, logistics, and urban infrastructure.

In the U.S., the Federal Communications Commission (FCC) has aggressively promoted 5G expansion through spectrum auctions and funding mechanisms. The 3.45 GHz and 2.5 GHz bands were released to enable large-scale enterprise use, while the Infrastructure Investment and Jobs Act (IIJA) allocated USD 65 billion to broadband

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infrastructure, supporting 5G deployments in rural and industrial corridors.

Efficient spectrum management and agile regulatory frameworks have become essential enablers of 5G enterprise solutions. With growing demand from sectors such as manufacturing, agriculture, and logistics, governments are optimizing spectrum allocation to enhance enterprise-grade network performance. In the UK, Ofcom auctioned the 3.4 GHz and 2.3 GHz bands, allowing mobile network operators like EE, Vodafone, and Three to deliver expansive 5G coverage across over 66 cities, supporting enterprise applications such as remote asset management and smart infrastructure. The FCC in the U.S. took a similar step in 2021 by auctioning 100 MHz of mid-band spectrum in the 3.45-3.55 GHz band and initiating planning for mmWave auctions in the 42 GHz band. These releases are specifically geared toward enterprise deployments like private networks, advanced robotics, and precision agriculture, where dedicated and uncongested bandwidth is vital. Flexible licensing schemes and shared access models are also being introduced to support private 5G networks, a model increasingly favored by large enterprises for low-latency, secure, on-premise communications.

Governments are fostering innovation in the 5G enterprise industry through collaborative public-private partnerships (PPPs). These alliances bridge the gap between emerging technology and real-world enterprise deployment by facilitating experimentation, co-development, and ecosystem growth. In Singapore, the Infocomm Media Development Authority (IMDA) has allocated USD 21.7 million (SGD 30 million) to fund 5G Living Labs in verticals such as maritime logistics, healthcare, and smart estates. These testbeds have accelerated the deployment of enterprise-grade 5G applications such as autonomous vehicles, remote diagnostics, and intelligent building systems. Meanwhile, Germany’s 2022 Digital Strategy emphasizes cross-border collaboration with U.S. and European tech firms in emerging areas like quantum computing and AI over 5G infrastructure. By co-funding R&D and pilot projects, the German government aims to strengthen its digital sovereignty while enabling enterprises to benefit from cutting-edge network-enabled solutions. These partnerships have proven to be vital for de-risking large-scale enterprise investments while simultaneously shaping global technology standards and market readiness.

As enterprises rely more on 5G for mission-critical applications, ensuring network security and data sovereignty has become a strategic necessity. National governments are tightening cybersecurity frameworks and mandating domestic control over digital infrastructure to protect economic and security interests. In China, the 14th Five-Year Plan for the Digital Economy outlines mandatory requirements for deploying "secure and controllable" digital infrastructure. It prioritizes domestic R&D in AI, blockchain, and encryption technologies, especially for sectors like finance, energy, and telecommunications that are adopting 5G-enabled systems. Germany’s International Digital Strategy, published by the Federal Ministry for Economic Affairs and Climate Action, calls for cross-border cooperation on cybersecurity standards while emphasizing data sovereignty for critical infrastructure. Enterprises must adhere to strict data localization laws and adopt network slicing technologies to separate and secure different classes of enterprise data traffic. These cybersecurity frameworks are now integral to enterprise 5G adoption strategies, especially in sectors that handle sensitive operational or customer data, such as healthcare, utilities, and public services.

Global 5G Enterprise Market Report Segmentation

This report forecasts revenue growth at the global, regional, and country levels and provides an analysis of the latest industry trends in each of the sub-segments from 2018 to 2030. For this study, Grand View Research has segmented the global 5G enterprise market report based on network type, infrastructure, spectrum, frequency band, organization size, vertical, and region:

Network Type Outlook (Revenue, USD Billion, 2018 - 2030)

Hybrid Networks

Private Networks

Enterprise Network

CSP Network

Infrastructure Outlook (Revenue, USD Billion, 2018 - 2030)

Access Equipment

Small Cells

NFV

Core Network

SDN

E-RAN Equipment (Service Node)

Spectrum Outlook (Revenue, USD Billion, 2018 - 2030)

Licensed

Unlicensed/Shared

Frequency Band Outlook (Revenue, USD Billion, 2018 - 2030)

Sub-6GHz

mmWave

Organization Size Outlook (Revenue, USD Billion, 2018 - 2030)

Large Enterprises

Small & Medium Enterprises (SMEs)

Vertical Outlook (Revenue, USD Billion, 2018 - 2030)

BFSI

Manufacturing

Energy & utilities

Retail

Healthcare

Government and public safety

Others

Regional Outlook (Revenue, USD Billion, 2018 - 2030)

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North America

- U.S.
- Canada
- Mexico

Europe

- Germany
- UK
- France

Asia Pacific

- China
- Japan
- India
- South Korea
- Australia

Latin America

- Brazil

Middle East and Africa (MEA)

- KSA
- UAE

South Africa

Companies Mentioned

Telefonaktiebolaget LM Ericsson
Nokia
Huawei Technologies Co., Ltd.
Qualcomm Technologies, Inc.
Samsung
Cisco Systems, Inc.
ZTE Corporation
Hewlett Packard Enterprise Development LP
Intel Corporation
Microsoft

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