

5G System Integration Market Forecasts to 2032 – Global Analysis By Component (Software, Hardware, and Services), Network Architecture, Technology, Communication Type, Application, End User and By Geography

<https://marketpublishers.com/r/5E9A300223F5EN.html>

Date: April 2025

Pages: 150

Price: US\$ 4,150.00 (Single User License)

ID: 5E9A300223F5EN

Abstracts

According to Statistics MRC, the Global 5G System Integration Market is accounted for \$19.99 billion in 2025 and is expected to reach \$125.45 billion by 2032 growing at a CAGR of 30.0% during the forecast period. The process of integrating different hardware, software, and network components to facilitate the smooth deployment and operation of 5G networks is known as 5G system integration. To guarantee dependable, fast, and low-latency communication, it entails combining cloud infrastructure, edge computing solutions, radio access networks, and core network components. To provide a seamless transition to 5G technology for telecom operators and enterprises, system integration also entails managing data traffic, optimizing network performance, and guaranteeing scalability, security, and interoperability across a variety of devices and applications.

Market Dynamics:

Driver:

Growing demand for high-speed data

Data transmission needs to be faster and more dependable due to the increase in cloud-based apps, streaming services, and mobile data traffic. 5G technologies are crucial for contemporary communication networks since it promises to provide ultra-fast speeds, minimal latency, and increased capacity. The performance of many applications,

including as augmented reality, smart cities, and driverless cars, can be improved by integrating 5G technologies. The adoption of 5G system integration solutions is anticipated to be fueled by this rising demand for fast data. As a result, companies are making significant investments in 5G infrastructure to satisfy these expanding demands.

Restraint:

High Deployment Costs

The installation of 5G infrastructure requires substantial investments in new equipment, such as base stations, antennas, and fiber-optic cables. Additionally, the process of upgrading existing networks to support 5G can be time-consuming and expensive. These high deployment costs can be a barrier for smaller companies and developing regions, limiting the widespread adoption of 5G technology. Moreover, the ongoing maintenance and operational costs of 5G networks add to the financial burden. As a result, high deployment costs remain a significant challenge for the 5G system integration market.

Opportunity:

Rising IoT Adoption

5G technology is well-suited to address the dependable and fast communication needs of Internet of Things devices. 5G system integration can facilitate smooth communication between IoT devices, enhancing their functionality and performance. This may result in improvements in a number of fields, such as manufacturing, agriculture, and healthcare. There will likely be a greater need for 5G system integration solutions as the number of connected devices continues expanding. The growing IoT market would be advantageous to businesses that can offer effective 5G integration services.

Threat:

Limited spectrum availability

The spectrum is a finite resource, and the allocation of frequencies for 5G services is highly competitive. Regulatory challenges and delays in spectrum auctions can hinder the deployment of 5G networks. Additionally, the interference with existing wireless

services can pose technical challenges for 5G integration. These spectrum-related issues can slow down the rollout of 5G infrastructure and limit its potential benefits. Therefore, addressing spectrum availability and management is crucial for the successful implementation of 5G systems.

Covid-19 Impact:

The COVID-19 pandemic significantly impacted the 5G system integration market by disrupting supply chains, delaying network rollouts, and slowing down infrastructure development. However, it also accelerated the demand for reliable, high-speed communication as remote work, online education, and digital services surged. The pandemic highlighted the need for robust connectivity, which in turn spurred investments in 5G technology. Despite challenges, the crisis acted as a catalyst, underscoring the importance of 5G in enabling future digital transformation and connectivity.

The services segment is expected to be the largest during the forecast period

The services segment is expected to account for the largest market share during the forecast period due to the growing demand for managed services, consulting, and system integration services to support the deployment of 5G networks. Service providers play a crucial role in ensuring the successful implementation and operation of 5G systems. Additionally, the complexity of 5G technology necessitates professional expertise and support, driving the demand for service-based solutions.

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

Over the forecast period, the industrial sensors segment is predicted to witness the highest growth rate owing to the integration of 5G technology with industrial sensors can enhance real-time data collection and analysis, improving the efficiency and productivity of industrial processes. 5G-enabled sensors can support applications such as predictive maintenance, remote monitoring, and automation in industries like manufacturing, oil and gas, and logistics. The increasing adoption of smart manufacturing and Industry 4.0 initiatives is driving the demand for advanced sensor technologies.

Region with largest share:

During the forecast period, the Asia Pacific region is expected to hold the largest market

share attributed to the significant investments in 5G infrastructures by countries like China, Japan, and South Korea. The region's focus on digital transformation, smart cities, and industrial automation is driving the demand for 5G system integration solutions. Additionally, the presence of major telecom operators and technology providers in the Asia Pacific region is boosting market growth. Government initiatives and favorable policies are further supporting the adoption of 5G technology.

Region with highest CAGR:

Over the forecast period, the North America region is anticipated to exhibit the highest CAGR driven by strong government support, technological advancements, and a robust market for 5G solutions. The United States and Canada are investing heavily in 5G infrastructure to enhance connectivity and support emerging technologies. The presence of leading technology companies and innovative startups in North America is contributing to the rapid adoption of 5G systems. Additionally, the region's focus on developing smart cities and IoT applications is fueling the demand for 5G integration services.

Key players in the market

Some of the key players in 5G System Integration Market include Ericsson, Nokia, Huawei Technologies, Qualcomm, Samsung Electronics, Cisco Systems, Intel Corporation, ZTE Corporation, Mavenir, Juniper Networks, NEC Corporation, Amdocs, Capgemini, Accenture, Atos.

Key Developments:

In March 2025, Proximus Global announced that it will partner with Nokia to explore opportunities that utilize their respective strengths in network API solutions to support developers as they create new applications for enterprises. The collaboration aims to expose Proximus Global and Nokia APIs on each other's marketplaces, bridging the gap between the various industry segments and the telecom ecosystem.

In February 2025, Samsung Electronics announced a partnership with Kia Corporation that integrates SmartThings Pro, Samsung's B2B management solution, into Kia's Platform Beyond Vehicles (PBVs).¹ The agreement — signed at the Kia EV Day event held this week in Spain — is an extension of the strategic technology partnership signed last September with Hyundai Motor and Kia.

Components Covered:

Software

Hardware

Services

Network Architectures Covered:

Standalone (SA) Architecture

Non-Standalone (NSA) Architecture

Technologies Covered:

Small Cell Networks

Massive MIMO

Network Slicing

Communication Types Covered:

Device-to-Device (D2D)

Device-to-Cloud (D2C)

Device-to-Network (D2N)

Applications Covered:

Collaborate Robot /Cloud Robot

Industrial Sensors

Drone

Logistics & Inventory Monitoring

Wireless Industry Camera

Vehicle-to-everything (V2X)

Gaming and Mobile Media

Remote Patient & Diagnosis Management

Intelligent Power Distribution Systems

P2P Transfers /mCommerce

Other Applications

End Users Covered:

Automotive

Healthcare

Telecommunications

Manufacturing

Retail

Energy & Utility

Other End Users

Regions Covered:

North America

US

Canada

Mexico

Europe

Germany

UK

Italy

France

Spain

Rest of Europe

Asia Pacific

Japan

China

India

Australia

New Zealand

South Korea

Rest of Asia Pacific

South America

Argentina

Brazil

Chile

Rest of South America

Middle East & Africa

Saudi Arabia

UAE

Qatar

South Africa

Rest of Middle East & 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 2024, 2025, 2026, 2028, and 2032
- 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

Benchmarking of key players based on product portfolio, geographical presence, and strategic alliances

Contents

1 EXECUTIVE SUMMARY

2 PREFACE

- 2.1 Abstract
- 2.2 Stake Holders
- 2.3 Research Scope
- 2.4 Research Methodology
 - 2.4.1 Data Mining
 - 2.4.2 Data Analysis
 - 2.4.3 Data Validation
 - 2.4.4 Research Approach
- 2.5 Research Sources
 - 2.5.1 Primary Research Sources
 - 2.5.2 Secondary Research Sources
 - 2.5.3 Assumptions

3 MARKET TREND ANALYSIS

- 3.1 Introduction
- 3.2 Drivers
- 3.3 Restraints
- 3.4 Opportunities
- 3.5 Threats
- 3.6 Technology Analysis
- 3.7 Application Analysis
- 3.8 End User Analysis
- 3.9 Emerging Markets
- 3.10 Impact of Covid-19

4 PORTERS FIVE FORCE ANALYSIS

- 4.1 Bargaining power of suppliers
- 4.2 Bargaining power of buyers
- 4.3 Threat of substitutes
- 4.4 Threat of new entrants
- 4.5 Competitive rivalry

5 GLOBAL 5G SYSTEM INTEGRATION MARKET, BY COMPONENT

- 5.1 Introduction
- 5.2 Software
- 5.3 Hardware
- 5.4 Services
 - 5.4.1 Consulting
 - 5.4.2 Infrastructure Integration
 - 5.4.3 Application Integration

6 GLOBAL 5G SYSTEM INTEGRATION MARKET, BY NETWORK ARCHITECTURE

- 6.1 Introduction
- 6.2 Standalone (SA) Architecture
- 6.3 Non-Standalone (NSA) Architecture

7 GLOBAL 5G SYSTEM INTEGRATION MARKET, BY TECHNOLOGY

- 7.1 Introduction
- 7.2 Small Cell Networks
- 7.3 Massive MIMO
- 7.4 Network Slicing

8 GLOBAL 5G SYSTEM INTEGRATION MARKET, BY COMMUNICATION TYPE

- 8.1 Introduction
- 8.2 Device-to-Device (D2D)
- 8.3 Device-to-Cloud (D2C)
- 8.4 Device-to-Network (D2N)

9 GLOBAL 5G SYSTEM INTEGRATION MARKET, BY APPLICATION

- 9.1 Introduction
- 9.2 Collaborate Robot /Cloud Robot
- 9.3 Industrial Sensors
- 9.4 Drone
- 9.5 Logistics & Inventory Monitoring
- 9.6 Wireless Industry Camera

- 9.7 Vehicle-to-everything (V2X)
- 9.8 Gaming and Mobile Media
- 9.9 Remote Patient & Diagnosis Management
- 9.10 Intelligent Power Distribution Systems
- 9.11 P2P Transfers /mCommerce
- 9.12 Other Applications

10 GLOBAL 5G SYSTEM INTEGRATION MARKET, BY END USER

- 10.1 Introduction
- 10.2 Automotive
- 10.3 Healthcare
- 10.4 Telecommunications
- 10.5 Manufacturing
- 10.6 Retail
- 10.7 Energy & Utility
- 10.8 Other End Users

11 GLOBAL 5G SYSTEM INTEGRATION MARKET, BY GEOGRAPHY

- 11.1 Introduction
- 11.2 North America
 - 11.2.1 US
 - 11.2.2 Canada
 - 11.2.3 Mexico
- 11.3 Europe
 - 11.3.1 Germany
 - 11.3.2 UK
 - 11.3.3 Italy
 - 11.3.4 France
 - 11.3.5 Spain
 - 11.3.6 Rest of Europe
- 11.4 Asia Pacific
 - 11.4.1 Japan
 - 11.4.2 China
 - 11.4.3 India
 - 11.4.4 Australia
 - 11.4.5 New Zealand
 - 11.4.6 South Korea

- 11.4.7 Rest of Asia Pacific
- 11.5 South America
 - 11.5.1 Argentina
 - 11.5.2 Brazil
 - 11.5.3 Chile
 - 11.5.4 Rest of South America
- 11.6 Middle East & Africa
 - 11.6.1 Saudi Arabia
 - 11.6.2 UAE
 - 11.6.3 Qatar
 - 11.6.4 South Africa
 - 11.6.5 Rest of Middle East & Africa

12 KEY DEVELOPMENTS

- 12.1 Agreements, Partnerships, Collaborations and Joint Ventures
- 12.2 Acquisitions & Mergers
- 12.3 New Product Launch
- 12.4 Expansions
- 12.5 Other Key Strategies

13 COMPANY PROFILING

- 13.1 Ericsson
- 13.2 Nokia
- 13.3 Huawei Technologies
- 13.4 Qualcomm
- 13.5 Samsung Electronics
- 13.6 Cisco Systems
- 13.7 Intel Corporation
- 13.8 ZTE Corporation
- 13.9 Mavenir
- 13.10 Juniper Networks
- 13.11 NEC Corporation
- 13.12 Amdocs
- 13.13 Capgemini
- 13.14 Accenture
- 13.15 Atos

List Of Tables

LIST OF TABLES

Table 1 Global 5G System Integration Market Outlook, By Region (2024-2032) (\$MN)

Table 2 Global 5G System Integration Market Outlook, By Component (2024-2032) (\$MN)

Table 3 Global 5G System Integration Market Outlook, By Software (2024-2032) (\$MN)

Table 4 Global 5G System Integration Market Outlook, By Hardware (2024-2032) (\$MN)

Table 5 Global 5G System Integration Market Outlook, By Services (2024-2032) (\$MN)

Table 6 Global 5G System Integration Market Outlook, By Consulting (2024-2032) (\$MN)

Table 7 Global 5G System Integration Market Outlook, By Infrastructure Integration (2024-2032) (\$MN)

Table 8 Global 5G System Integration Market Outlook, By Application Integration (2024-2032) (\$MN)

Table 9 Global 5G System Integration Market Outlook, By Network Architecture (2024-2032) (\$MN)

Table 10 Global 5G System Integration Market Outlook, By Standalone (SA) Architecture (2024-2032) (\$MN)

Table 11 Global 5G System Integration Market Outlook, By Non-Standalone (NSA) Architecture (2024-2032) (\$MN)

Table 12 Global 5G System Integration Market Outlook, By Technology (2024-2032) (\$MN)

Table 13 Global 5G System Integration Market Outlook, By Small Cell Networks (2024-2032) (\$MN)

Table 14 Global 5G System Integration Market Outlook, By Massive MIMO (2024-2032) (\$MN)

Table 15 Global 5G System Integration Market Outlook, By Network Slicing (2024-2032) (\$MN)

Table 16 Global 5G System Integration Market Outlook, By Communication Type (2024-2032) (\$MN)

Table 17 Global 5G System Integration Market Outlook, By Device-to-Device (D2D) (2024-2032) (\$MN)

Table 18 Global 5G System Integration Market Outlook, By Device-to-Cloud (D2C) (2024-2032) (\$MN)

Table 19 Global 5G System Integration Market Outlook, By Device-to-Network (D2N) (2024-2032) (\$MN)

Table 20 Global 5G System Integration Market Outlook, By Application (2024-2032)

(\$MN)

Table 21 Global 5G System Integration Market Outlook, By Collaborate Robot /Cloud Robot (2024-2032) (\$MN)

Table 22 Global 5G System Integration Market Outlook, By Industrial Sensors (2024-2032) (\$MN)

Table 23 Global 5G System Integration Market Outlook, By Drone (2024-2032) (\$MN)

Table 24 Global 5G System Integration Market Outlook, By Logistics & Inventory Monitoring (2024-2032) (\$MN)

Table 25 Global 5G System Integration Market Outlook, By Wireless Industry Camera (2024-2032) (\$MN)

Table 26 Global 5G System Integration Market Outlook, By Vehicle-to-everything (V2X) (2024-2032) (\$MN)

Table 27 Global 5G System Integration Market Outlook, By Gaming and Mobile Media (2024-2032) (\$MN)

Table 28 Global 5G System Integration Market Outlook, By Remote Patient & Diagnosis Management (2024-2032) (\$MN)

Table 29 Global 5G System Integration Market Outlook, By Intelligent Power Distribution Systems (2024-2032) (\$MN)

Table 30 Global 5G System Integration Market Outlook, By P2P Transfers /mCommerce (2024-2032) (\$MN)

Table 31 Global 5G System Integration Market Outlook, By Other Applications (2024-2032) (\$MN)

Table 32 Global 5G System Integration Market Outlook, By End User (2024-2032) (\$MN)

Table 33 Global 5G System Integration Market Outlook, By Automotive (2024-2032) (\$MN)

Table 34 Global 5G System Integration Market Outlook, By Healthcare (2024-2032) (\$MN)

Table 35 Global 5G System Integration Market Outlook, By Telecommunications (2024-2032) (\$MN)

Table 36 Global 5G System Integration Market Outlook, By Manufacturing (2024-2032) (\$MN)

Table 37 Global 5G System Integration Market Outlook, By Retail (2024-2032) (\$MN)

Table 38 Global 5G System Integration Market Outlook, By Energy & Utility (2024-2032) (\$MN)

Table 39 Global 5G System Integration Market Outlook, By Other End Users (2024-2032) (\$MN)

Note: Tables for North America, Europe, APAC, South America, and Middle East &

Africa Regions are also represented in the same manner as above.

I would like to order

Product name: 5G System Integration Market Forecasts to 2032 – Global Analysis By Component (Software, Hardware, and Services), Network Architecture, Technology, Communication Type, Application, End User and By Geography

Product link: <https://marketpublishers.com/r/5E9A300223F5EN.html>

Price: US\$ 4,150.00 (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/5E9A300223F5EN.html>