

# **5G Internet of Things (IoT) Market – Global Industry Size, Share, Trends, Opportunity, and Forecast, Segmented By Component (Hardware, Software, Services), By IoT Connectivity (Sub-Massive IoT, Broadband IoT, Critical IoT, Industrial Automation IoT), By Network Architecture (5G Non-Standalone, 5G Standalone), By Vertical (Manufacturing, Smart Cities, Energy & Utilities, Transportation & Logistics, Enterprises/Corporates, Healthcare, Oil & Gas, Others), By Region, By Competition, 2018-2028**

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## **Abstracts**

Global 5G Internet of Things Market was valued at USD 4.2 Billion in 2022 and is anticipated to project robust growth in the forecast period with a CAGR of 51.1% through 2028. The Global 5G Internet of Things (IoT) market has witnessed remarkable growth and transformation in recent years, poised to become a cornerstone of the digital landscape. With the deployment of 5G networks, the IoT ecosystem has gained unprecedented momentum, fostering a multitude of opportunities across various industries. This burgeoning market is characterized by the seamless connectivity and ultra-low latency capabilities offered by 5G technology, which enables a vast array of IoT devices to communicate and operate efficiently.

Industries such as healthcare, manufacturing, agriculture, and smart cities have been at the forefront of embracing 5G IoT solutions. Healthcare providers are leveraging remote monitoring and telemedicine to improve patient care, while manufacturers are optimizing operations through predictive maintenance and automation. Additionally, agriculture is

benefiting from precision farming techniques, and smart cities are enhancing public services and infrastructure. The Global 5G IoT market is set to continue its upward trajectory as more industries recognize the potential for innovation, efficiency, and cost savings offered by this transformative technology. As 5G infrastructure expands and IoT adoption accelerates, businesses worldwide are poised to capitalize on the vast opportunities presented by the convergence of these two technological trends.

## Key Market Drivers

### Rapid IoT Expansion and Integration

The global 5G Internet of Things (IoT) market is experiencing a rapid expansion driven by the increasing adoption and integration of IoT technology across various industries. Organizations are recognizing the transformative potential of 5G-enabled IoT to enhance connectivity, data transfer speeds, and reliability. This technology facilitates seamless communication between a vast array of IoT devices, enabling real-time data collection and analysis. 5G IoT is being integrated into sectors such as manufacturing, healthcare, agriculture, transportation, and smart cities, empowering organizations to harness the power of connected devices and data. The surge in adoption is motivated by the desire to create more efficient operations, deliver innovative services, and gain a competitive edge. For instance, in manufacturing, 5G IoT enables predictive maintenance and automation, optimizing production processes. In healthcare, it supports remote patient monitoring and telemedicine, improving healthcare access and outcomes. The integration of 5G IoT with existing systems and technologies, including AI and edge computing, further fuels its growth, ensuring compatibility with diverse business operations. In summary, the rapid expansion and integration of 5G IoT technology are pivotal drivers propelling the global market, offering organizations the opportunity to revolutionize operations and provide enhanced services.

### Emerging Use Cases and Industry Applications

The global 5G IoT market is witnessing substantial growth due to the emergence of diverse use cases and industry-specific applications. Businesses across multiple sectors are exploring innovative ways to leverage 5G IoT technology to create new revenue streams and improve operational efficiency. The proliferation of use cases, such as autonomous vehicles, industrial automation, smart agriculture, and augmented reality, is pushing the boundaries of what is achievable with 5G IoT. These applications offer businesses the ability to enhance customer experiences, reduce costs, and

increase productivity. For example, in the automotive industry, 5G IoT enables real-time vehicle-to-vehicle communication, paving the way for safer and more efficient transportation. In agriculture, it supports precision farming techniques, optimizing crop yields and resource utilization. The versatility of 5G IoT extends across various domains, from supply chain logistics to environmental monitoring, enabling organizations to tailor solutions to their unique needs. As industries continue to explore and implement novel use cases, the global 5G IoT market is set to flourish, driven by innovation and adaptability to specific industry demands.

### Security and Data Privacy Imperatives

The global 5G IoT market is influenced by the growing emphasis on security and data privacy, as organizations strive to safeguard sensitive information in an increasingly connected world. With the exponential growth of IoT devices and the high-speed connectivity offered by 5G networks, the potential for cyber threats and data breaches has amplified. This has prompted organizations to prioritize robust security measures and data privacy protocols within their IoT implementations. The demand for end-to-end encryption, secure device authentication, and proactive threat detection is driving investments in IoT security solutions. Additionally, compliance with data protection regulations, such as GDPR and CCPA, is imperative for organizations handling personal and sensitive data through IoT devices. As a result, the 5G IoT market is witnessing a surge in the adoption of security solutions, creating opportunities for cybersecurity providers. The focus on security and data privacy is not only a regulatory requirement but also a market differentiator, as organizations that can assure customers and partners of their data protection measures gain a competitive advantage. In conclusion, the increasing emphasis on security and data privacy is a significant driver influencing the global 5G IoT market, with organizations seeking robust solutions to safeguard their IoT ecosystems and maintain trust with stakeholders.

### 5G Network Infrastructure Expansion

The global 5G IoT market's growth is closely tied to the ongoing expansion of 5G network infrastructure worldwide. As telecommunication providers continue to roll out 5G networks, the coverage and reliability of high-speed connectivity improve, enabling the seamless deployment and operation of IoT devices. The expansion of 5G network infrastructure is a critical enabler for 5G IoT applications, as it ensures low latency, high bandwidth, and wide coverage areas. Organizations in various industries, from manufacturing to smart cities, rely on this infrastructure to support their IoT initiatives. The ongoing investments in building and upgrading 5G networks, including the

deployment of small cells and edge computing capabilities, further enhance the ecosystem for 5G IoT. This expansion creates opportunities for businesses to leverage 5G IoT for real-time data analytics, remote monitoring, and mission-critical applications. As the global 5G network infrastructure continues to grow, it fuels the proliferation of IoT solutions and contributes significantly to the market's evolution. In conclusion, the expansion of 5G network infrastructure is a pivotal driver shaping the global 5G IoT market, enabling organizations to harness the full potential of 5G-enabled IoT applications.

## Key Market Challenges

### Limited Infrastructure and Coverage

One of the primary challenges facing the global 5G Internet of Things (IoT) market is the limited infrastructure and coverage in certain regions. While 5G technology offers high-speed, low-latency connectivity, its deployment is still in progress, and coverage may be limited to urban areas or specific regions. This lack of widespread infrastructure can hinder the adoption and implementation of 5G IoT solutions, particularly in rural or remote areas. Addressing this challenge requires continued investment in expanding 5G infrastructure and improving coverage to ensure that organizations can fully leverage the benefits of 5G IoT regardless of their location.

### Complexity of Implementation and Integration

Implementing and integrating 5G IoT solutions can be complex and challenging for organizations, especially those with limited technical expertise or resources. The deployment of 5G IoT devices, the configuration of networks, and the integration with existing IT infrastructure require specialized knowledge and skills. Additionally, compatibility issues may arise when integrating different devices and platforms, leading to delays and suboptimal performance. To overcome this challenge, organizations need access to comprehensive support, including technical expertise, documentation, and training resources. Simplifying the implementation and integration process will enable organizations to adopt 5G IoT solutions more efficiently and effectively.

### Data Security and Privacy Concerns

As the volume of data generated by 5G IoT devices increases, ensuring data security and privacy becomes a critical challenge. Organizations must protect sensitive data from unauthorized access, breaches, and cyber threats. Additionally, compliance with

data protection regulations, such as the General Data Protection Regulation (GDPR), adds complexity to the management of data privacy. To address these concerns, organizations need to implement robust security measures, including encryption, authentication, and access controls. They should also establish clear data governance policies and procedures to ensure responsible data handling and compliance with regulations.

### Interoperability and Standardization

The global 5G IoT market is characterized by a wide range of devices, platforms, and protocols, leading to interoperability challenges. Lack of standardization can hinder seamless communication and integration between different devices and systems, limiting the scalability and flexibility of 5G IoT solutions. To overcome this challenge, industry stakeholders need to collaborate and establish common standards and protocols that promote interoperability. This will enable organizations to integrate diverse 5G IoT devices and platforms, facilitating data exchange and unlocking the full potential of interconnected systems.

### Business Model Transformation

The adoption of 5G IoT requires organizations to undergo a significant business model transformation. The integration of 5G technology with IoT enables new revenue streams, innovative services, and business opportunities. However, organizations need to adapt their existing business models to capitalize on these opportunities. This transformation may involve changes in product offerings, pricing models, partnerships, and customer engagement strategies. Organizations must be proactive in identifying and embracing these changes to stay competitive and maximize the benefits of 5G IoT.

### Key Market Trends

#### Elevated Awareness and Understanding

The global 5G Internet of Things (IoT) market is experiencing a surge in awareness and understanding as organizations increasingly grasp the capabilities and potential applications of this transformative technology. 5G IoT offers seamless connectivity with ultra-low latency, enabling a myriad of IoT devices to communicate and operate efficiently. As organizations gain a deeper understanding of the benefits that 5G IoT can deliver, there is a growing recognition of its value in enhancing connectivity, enabling real-time data analytics, and fueling innovation. This heightened awareness is driving a

surge in demand for 5G IoT solutions across diverse sectors, including manufacturing, healthcare, agriculture, transportation, and smart cities. In manufacturing, 5G IoT enables predictive maintenance, optimizing production processes. In healthcare, it facilitates remote patient monitoring and telemedicine, improving healthcare access and outcomes. The growing demand for 5G IoT solutions stems from the desire to enhance efficiency, deliver innovative services, and gain a competitive edge. As organizations continue to recognize the potential of 5G IoT, the market is poised for further expansion, with vendors focusing on delivering advanced features and seamless integration with existing systems to meet the evolving needs of different industries.

### Complex Implementation and Integration Challenges

The implementation and integration of 5G IoT solutions can pose complex challenges for organizations, given the multifaceted nature of this technology. Successful deployment of 5G IoT involves the coordination of hardware, software, and network infrastructure, necessitating meticulous planning and execution. Organizations must consider factors like compatibility with existing systems, scalability, and the need for user training. Additionally, integrating 5G IoT into established workflows and processes may require adjustments to accommodate real-time data streams and the high-speed connectivity provided by 5G networks, which can be disruptive to operations. Managing this transition effectively requires comprehensive change management strategies, including redefining user roles, providing extensive documentation and training, and offering ongoing support to address any issues. Organizations should also prioritize user feedback and engagement to continually enhance the user experience and optimize the benefits of 5G IoT. By addressing these complexities and effectively managing the implementation and integration of 5G IoT solutions, organizations can harness the full potential of this technology, leading to enhanced productivity, improved operations, and increased innovation.

### Security and Privacy Imperatives

The paramount importance of security and privacy considerations in the 5G IoT market cannot be overstated. With the proliferation of connected devices and high-speed 5G networks, the potential for cybersecurity threats and data breaches has escalated. Safeguarding data and ensuring data privacy are not only essential for regulatory compliance but also for mitigating risks and maintaining user trust. Organizations must implement rigorous security measures throughout the entire 5G IoT ecosystem, including end-to-end data encryption, robust access controls, and stringent authentication mechanisms. Regular software and firmware updates and

comprehensive security testing are imperative to identify and rectify vulnerabilities. Additionally, organizations should establish transparent data privacy policies and secure user consent for data collection and processing activities. Transparent communication with users regarding data usage and protection can foster trust and confidence. Regular audits and reviews of data handling practices are necessary to ensure compliance with relevant privacy regulations, such as GDPR or CCPA. Prioritizing security and privacy considerations enables organizations to mitigate risks associated with 5G IoT and create a secure environment for data interactions.

### Seamless Integration with Existing Workflows

Seamless integration with existing workflows and processes stands out as a pivotal trend in the global 5G IoT market. Organizations spanning various industries are realizing the potential of 5G IoT technology to enhance operational efficiency and productivity. By integrating 5G IoT seamlessly into established workflows, organizations can streamline operations, foster collaboration, and enable more intuitive interactions with connected devices and data streams.

One of the primary advantages of integrating 5G IoT into existing workflows is the simplification of complex tasks. 5G IoT devices and networks offer real-time data transmission with minimal latency, facilitating rapid decision-making and automation. This eliminates the need for traditional input methods, making tasks more natural and efficient. For example, in manufacturing, 5G IoT enables real-time monitoring and control of production processes, reducing downtime and improving quality control. In transportation, it supports autonomous vehicles and traffic management, enhancing safety and efficiency. The integration of 5G IoT with existing systems also opens up avenues for data-driven insights and automation, enabling organizations to make informed decisions and improve overall performance. As the demand for seamless integration continues to grow, 5G IoT providers are focusing on developing solutions that align with a wide range of existing technologies, such as edge computing, artificial intelligence, and cloud computing. This compatibility ensures that organizations can leverage their existing investments while harnessing the full potential of 5G IoT technology. In summary, the seamless integration of 5G IoT with existing workflows and processes is a pivotal driver shaping the global market, enabling organizations to unlock the full potential of this technology for enhanced productivity and innovation.

### Segmental Insights

### Component Insights

The hardware segment dominated the market in 2022 and accounted for more than 45.0% share of the global revenue. The segment growth can be attributed to significant innovation and investment in the coming years as companies seek to capitalize on the potential of this new technology. As 5G networks become more widely available, the cost of 5G IoT hardware will likely fall. This would make it cheaper for manufacturers to incorporate 5G IoT hardware into their business processes and utilize smart cities, industrial automation, and autonomous cars, among others. The combination of 5G technology with IoT has the potential to alter businesses and generate demand for 5G IoT hardware over the forecast period.

The services segment is projected to witness remarkable growth over the forecast period. The segment is expected to grow over the forecast period in line with the continued adoption of IoT devices in manufacturing, transportation, and automotive, among other industries and industry verticals. The support & maintenance segment is anticipated to witness the fastest growth over the forecast period. Businesses are increasingly depending on 5G IoT services to suit their demands as the number of IoT devices linked to the internet rises and the demand for a high-speed connection and real-time data processing rises.

### Network Architecture Insights

The 5G non-standalone segment dominated the market in 2022 and accounted for more than 67.0% share of the global revenue. The growth can be attributed to the early deployment of 5G non-standalone networks throughout the world to provide 5G services to businesses and consumers. The 5G non-standalone network uses the existing 4G infrastructure to provide 5G connectivity. During the first implementation of 5G networks, the non-standalone 5G network design will be critical in allowing users to experience faster data transfer speeds while still utilizing the current 4G/LTE infrastructure. Since they are built on existing infrastructure, they offer the most affordable and time-efficient way of upgrading to 5G, which is contributing to their dominant share in the market.

The 5G standalone segment is projected to grow at the highest CAGR over the forecast period. The ability of 5G standalone to maintain continuous machine-to-machine communication, which requires ultra-reliable, high-frequency, and low-latency connectivity is a major factor driving the segment growth. 5G standalone is a sort of 5G network architecture that is solely based on 5G infrastructure and is designed to deliver a more efficient and effective network for IoT devices. Globally, growing industrial



digitization is creating new opportunities for service providers. The combination of these trends is expected to drive the growth of the segment in the 5G IoT market over the coming years.

### Vertical Insights

The manufacturing segment dominated the market in 2022 and accounted for more than 22.0% share of the global revenue. 5G IoT has the potential to revolutionize the manufacturing industry and fuel the growth of Industry 4.0 transformation. Its various applications in the manufacturing industry, including automation, autonomous vehicles, machine-to-machine connectivity, machine health monitoring, asset tracking, supply chain management, and predictive maintenance, are contributing to the segment's growth.

Adoption of 5G IoT would be critical in assisting manufacturing entities in accelerating this transformation by providing enhanced visibility across the entire ecosystem and laying the groundwork for the implementation of cutting-edge technologies such as AI and ML, resulting in the creation of novel use cases and improved commercial outcomes.

The smart cities segment is expected to grow significantly over the forecast period. The rising deployment of connected sensors and devices, such as smart streetlights, traffic sensors, and waste management systems in smart cities are the major factors driving the growth opportunities for the segment. These devices collect and transmit data in real-time, allowing city managers to optimize operations and improve citizen services. Additionally, with the rise of urbanization and population growth, cities worldwide are facing numerous challenges related to traffic management, energy consumption, and environmental sustainability. To address these challenges, smart cities are increasingly turning to 5G IoT technologies to enable real-time monitoring, analysis, and optimization of city services and infrastructure.

### Regional Insights

The Asia Pacific region dominated the market in 2022 and accounted for more than 38.0% share of the global revenue. The growth can be attributed to the increasing 5G IoT initiatives, such as smart cities, in nations like China and India. At the same time, favorable government measures for automation and technologically advanced start-ups in the country are propelling the regional market's growth.

Additionally, APAC is characterized by countries with large populations, emerging economies, and evolving businesses and startups, which offers a significant growth opportunity for 5G IoT network providers owing to the presence of a sizeable untapped consumer base in the region. North America is expected to witness significant growth over the forecast period. Increasing 5G infrastructure investments are a key component fueling the region's expansion. Significant investments are made in 5G infrastructure, including the installation of fiber-optic cables, and other network elements. Moreover, the regional governments are encouraging the use of 5G technology through various programs and laws designed to enhance the network infrastructure. These elements are encouraging for the region's progress throughout the study period.

### Key Market Players

Nokia Corporation

TELEFONAKTIEBOLAGET LM ERICSSON

ZTE Corporation

AT&T INC.

Huawei Technologies Co., Ltd.

Verizon Communications Inc.

Thales Group

Vodafone Group Plc.

China Mobile Limited

Microsoft Corporation

### Report Scope:

In this report, the Global 5G Internet of Things Market has been segmented into the following categories, in addition to the industry trends which have also been detailed below:

### 5G Internet of Things Market, By Component:

Hardware

Software

Services

### 5G Internet of Things Market, By IoT Connectivity:

Sub-Massive IoT

Broadband IoT

Critical IoT

Industrial Automation IoT

### 5G Internet of Things Market, By Network Architecture:

5G non-Standalone

5G Standalone

### 5G Internet of Things Market, By Vertical:

Manufacturing

Smart Cities

Energy & Utilities

Transportation & Logistics

Enterprises/Corporates

Healthcare

Oil & Gas

Others

5G Internet of Things Market, By Region:

North America

United States

Canada

Mexico

Europe

France

United Kingdom

Italy

Germany

Spain

Belgium

Asia-Pacific

China

India

Japan

Australia

South Korea

Indonesia

Vietnam

South America

Brazil

Argentina

Colombia

Chile

Peru

Middle East & Africa

South Africa

Saudi Arabia

UAE

Turkey

Israel

## Competitive Landscape

Company Profiles: Detailed analysis of the major companies present in the Global 5G Internet of Things Market.

## Available Customizations:

Global 5G Internet of Things market report with the given market data, Tech Sci Research offers customizations according to a company's specific needs. The following customization options are available for the report:

## Company Information

Detailed analysis and profiling of additional market players (up to five).

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