

IoT Connectivity Market – Global Industry Size, Share, Trends, Opportunity, and Forecast, By Component (Platform, Services), By Application (Building & Home Automation, Smart Energy & Utility, Smart Manufacturing, Connected Health, Smart Retail, Smart Transportation, Others), By Organization Size (Large Enterprises, SMEs), By Region & Competition, 2020-2030F

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Abstracts

Market Overview

The Global IoT Connectivity Market was valued at USD 9.87 billion in 2024 and is projected to reach USD 28.11 billion by 2030, growing at a CAGR of 19.06%. This market encompasses the technologies, platforms, and services that facilitate seamless communication between interconnected IoT devices across industries such as manufacturing, transportation, energy, healthcare, and smart cities. It includes both wired and wireless communication protocols—such as cellular, Wi-Fi, LPWAN, and satellite—that support real-time data transmission and interoperability. Market growth is being driven by rapid IoT adoption, declining hardware costs, and a growing reliance on automated and data-driven decision-making. Enterprises are deploying IoT solutions to monitor assets, improve operational efficiency, and deliver personalized experiences. Rising investment in smart infrastructure, the deployment of 5G networks, and the growth of edge computing are also propelling demand for high-speed, secure, and scalable connectivity. As digital transformation deepens and Industry 4.0 adoption accelerates, the market is poised for sustained expansion.

Key Market Drivers

Accelerating Industrial Digitization and Smart Manufacturing Initiatives

The widespread implementation of smart manufacturing solutions is a major driver for the IoT Connectivity Market. Industries such as automotive, aerospace, pharmaceuticals, and consumer goods are adopting IoT to enable predictive maintenance, asset tracking, and automated production workflows. In smart factory environments, IoT ensures real-time connectivity between robots, sensors, and equipment, supporting continuous monitoring and efficient resource utilization. As Industry 4.0 frameworks become mainstream, seamless machine-to-machine communication is essential for mass customization, just-in-time delivery, and zero-defect manufacturing. Modern factories may deploy over 10,000 IoT-connected devices, reflecting the scale of connectivity needed for full automation. This surge in device density drives demand for robust, low-latency, and secure connectivity infrastructure capable of supporting high-throughput, real-time analytics and adaptive control systems. Manufacturers are investing in scalable connectivity solutions to future-proof operations and meet the performance expectations of next-generation industrial ecosystems.

Key Market Challenges

Data Privacy and Security Risks in Large-Scale IoT Networks

The expansion of IoT networks presents significant data privacy and cybersecurity challenges. IoT devices, often limited in processing power and security features, are vulnerable to threats such as unauthorized access, malware attacks, and data breaches. These risks are particularly acute in sectors handling sensitive data, such as healthcare, finance, and smart homes. As IoT ecosystems expand, each device increases the overall attack surface, making network-wide protection more complex. Regulatory bodies are responding with mandates around encryption, firmware updates, and access controls, but compliance imposes added costs and technical burdens—especially for SMEs. Furthermore, global deployments create legal complications around data residency and cross-border data transfer. These security concerns can delay IoT adoption and erode stakeholder trust, compelling companies to balance innovation with regulatory and operational risk mitigation.

Key Market Trends

Expansion of Edge Computing to Reduce Latency in IoT Connectivity Market

Edge computing is emerging as a key trend in the IoT Connectivity Market, driven by the need to reduce latency and dependence on centralized cloud systems. As the volume of connected devices grows, and applications such as autonomous vehicles and industrial automation demand real-time responsiveness, edge computing enables faster data processing by bringing computation closer to the device. This architecture supports faster decision-making, lowers data transmission costs, and enhances security by limiting the exposure of sensitive data. Edge capabilities are increasingly embedded in sensors and micro data centers, enabling localized analytics and autonomous operation. Telecom providers are enhancing their networks with edge support to deliver improved performance for latency-sensitive use cases. With the rollout of 5G, edge computing will play an even greater role in enabling intelligent, scalable, and resilient IoT deployments across sectors.

Key Market Players

AT&T Inc.

Verizon Communications Inc.

Telefonica, S.A.

China Mobile Limited

Orange S.A.

T-Mobile US, Inc.

Cisco Systems, Inc.

Qualcomm Incorporated

Report Scope:

In this report, the Global IoT Connectivity Market has been segmented into the following categories, in addition to the industry trends which have also been detailed below:

IoT Connectivity Market, By Component:

Platform

Services

IoT Connectivity Market, By Application:

Building & Home Automation

Smart Energy & Utility

Smart Manufacturing

Connected Health

Smart Retail

Smart Transportation

Others

IoT Connectivity Market, By Organization Size:

Large Enterprises

SMEs

IoT Connectivity Market, By Region:

North America

United States

Canada

Mexico

Europe

Germany

France

United Kingdom

Italy

Spain

Asia Pacific

China

India

Japan

South Korea

Australia

Middle East & Africa

Saudi Arabia

UAE

South Africa

South America

Brazil

Colombia

Argentina

Competitive Landscape

Company Profiles: Detailed analysis of the major companies present in the Global IoT Connectivity Market.

Available Customizations:

Global IoT Connectivity 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).

Contents

1. SOLUTION OVERVIEW

- 1.1. Market Definition
- 1.2. Scope of the Market
 - 1.2.1. Markets Covered
 - 1.2.2. Years Considered for Study
 - 1.2.3. Key Market Segmentations

2. RESEARCH METHODOLOGY

- 2.1. Objective of the Study
- 2.2. Baseline Methodology
- 2.3. Key Industry Partners
- 2.4. Major Association and Secondary Sources
- 2.5. Forecasting Methodology
- 2.6. Data Triangulation & Validation
- 2.7. Assumptions and Limitations

3. EXECUTIVE SUMMARY

- 3.1. Overview of the Market
- 3.2. Overview of Key Market Segmentations
- 3.3. Overview of Key Market Players
- 3.4. Overview of Key Regions/Countries
- 3.5. Overview of Market Drivers, Challenges, and Trends

4. VOICE OF CUSTOMER

5. GLOBAL IOT CONNECTIVITY MARKET OUTLOOK

- 5.1. Market Size & Forecast
 - 5.1.1. By Value
- 5.2. Market Share & Forecast
 - 5.2.1. By Component (Platform, Services)
 - 5.2.2. By Application (Building & Home Automation, Smart Energy & Utility, Smart Manufacturing, Connected Health, Smart Retail, Smart Transportation, Others)
 - 5.2.3. By Organization Size (Large Enterprises, SMEs)

5.2.4. By Region (North America, Europe, South America, Middle East & Africa, Asia Pacific)

5.3. By Company (2024)

5.4. Market Map

6. NORTH AMERICA IOT CONNECTIVITY MARKET OUTLOOK

6.1. Market Size & Forecast

6.1.1. By Value

6.2. Market Share & Forecast

6.2.1. By Component

6.2.2. By Application

6.2.3. By Organization Size

6.2.4. By Country

6.3. North America: Country Analysis

6.3.1. United States IoT Connectivity Market Outlook

6.3.1.1. Market Size & Forecast

6.3.1.1.1. By Value

6.3.1.2. Market Share & Forecast

6.3.1.2.1. By Component

6.3.1.2.2. By Application

6.3.1.2.3. By Organization Size

6.3.2. Canada IoT Connectivity Market Outlook

6.3.2.1. Market Size & Forecast

6.3.2.1.1. By Value

6.3.2.2. Market Share & Forecast

6.3.2.2.1. By Component

6.3.2.2.2. By Application

6.3.2.2.3. By Organization Size

6.3.3. Mexico IoT Connectivity Market Outlook

6.3.3.1. Market Size & Forecast

6.3.3.1.1. By Value

6.3.3.2. Market Share & Forecast

6.3.3.2.1. By Component

6.3.3.2.2. By Application

6.3.3.2.3. By Organization Size

7. EUROPE IOT CONNECTIVITY MARKET OUTLOOK

- 7.1. Market Size & Forecast
 - 7.1.1. By Value
- 7.2. Market Share & Forecast
 - 7.2.1. By Component
 - 7.2.2. By Application
 - 7.2.3. By Organization Size
 - 7.2.4. By Country
- 7.3. Europe: Country Analysis
 - 7.3.1. Germany IoT Connectivity Market Outlook
 - 7.3.1.1. Market Size & Forecast
 - 7.3.1.1.1. By Value
 - 7.3.1.2. Market Share & Forecast
 - 7.3.1.2.1. By Component
 - 7.3.1.2.2. By Application
 - 7.3.1.2.3. By Organization Size
 - 7.3.2. France IoT Connectivity Market Outlook
 - 7.3.2.1. Market Size & Forecast
 - 7.3.2.1.1. By Value
 - 7.3.2.2. Market Share & Forecast
 - 7.3.2.2.1. By Component
 - 7.3.2.2.2. By Application
 - 7.3.2.2.3. By Organization Size
 - 7.3.3. United Kingdom IoT Connectivity Market Outlook
 - 7.3.3.1. Market Size & Forecast
 - 7.3.3.1.1. By Value
 - 7.3.3.2. Market Share & Forecast
 - 7.3.3.2.1. By Component
 - 7.3.3.2.2. By Application
 - 7.3.3.2.3. By Organization Size
 - 7.3.4. Italy IoT Connectivity Market Outlook
 - 7.3.4.1. Market Size & Forecast
 - 7.3.4.1.1. By Value
 - 7.3.4.2. Market Share & Forecast
 - 7.3.4.2.1. By Component
 - 7.3.4.2.2. By Application
 - 7.3.4.2.3. By Organization Size
 - 7.3.5. Spain IoT Connectivity Market Outlook
 - 7.3.5.1. Market Size & Forecast
 - 7.3.5.1.1. By Value

7.3.5.2. Market Share & Forecast

7.3.5.2.1. By Component

7.3.5.2.2. By Application

7.3.5.2.3. By Organization Size

8. ASIA PACIFIC IOT CONNECTIVITY MARKET OUTLOOK

8.1. Market Size & Forecast

8.1.1. By Value

8.2. Market Share & Forecast

8.2.1. By Component

8.2.2. By Application

8.2.3. By Organization Size

8.2.4. By Country

8.3. Asia Pacific: Country Analysis

8.3.1. China IoT Connectivity Market Outlook

8.3.1.1. Market Size & Forecast

8.3.1.1.1. By Value

8.3.1.2. Market Share & Forecast

8.3.1.2.1. By Component

8.3.1.2.2. By Application

8.3.1.2.3. By Organization Size

8.3.2. India IoT Connectivity Market Outlook

8.3.2.1. Market Size & Forecast

8.3.2.1.1. By Value

8.3.2.2. Market Share & Forecast

8.3.2.2.1. By Component

8.3.2.2.2. By Application

8.3.2.2.3. By Organization Size

8.3.3. Japan IoT Connectivity Market Outlook

8.3.3.1. Market Size & Forecast

8.3.3.1.1. By Value

8.3.3.2. Market Share & Forecast

8.3.3.2.1. By Component

8.3.3.2.2. By Application

8.3.3.2.3. By Organization Size

8.3.4. South Korea IoT Connectivity Market Outlook

8.3.4.1. Market Size & Forecast

8.3.4.1.1. By Value

- 8.3.4.2. Market Share & Forecast
 - 8.3.4.2.1. By Component
 - 8.3.4.2.2. By Application
 - 8.3.4.2.3. By Organization Size
- 8.3.5. Australia IoT Connectivity Market Outlook
 - 8.3.5.1. Market Size & Forecast
 - 8.3.5.1.1. By Value
 - 8.3.5.2. Market Share & Forecast
 - 8.3.5.2.1. By Component
 - 8.3.5.2.2. By Application
 - 8.3.5.2.3. By Organization Size

9. MIDDLE EAST & AFRICA IOT CONNECTIVITY MARKET OUTLOOK

- 9.1. Market Size & Forecast
 - 9.1.1. By Value
- 9.2. Market Share & Forecast
 - 9.2.1. By Component
 - 9.2.2. By Application
 - 9.2.3. By Organization Size
 - 9.2.4. By Country
- 9.3. Middle East & Africa: Country Analysis
 - 9.3.1. Saudi Arabia IoT Connectivity Market Outlook
 - 9.3.1.1. Market Size & Forecast
 - 9.3.1.1.1. By Value
 - 9.3.1.2. Market Share & Forecast
 - 9.3.1.2.1. By Component
 - 9.3.1.2.2. By Application
 - 9.3.1.2.3. By Organization Size
 - 9.3.2. UAE IoT Connectivity Market Outlook
 - 9.3.2.1. Market Size & Forecast
 - 9.3.2.1.1. By Value
 - 9.3.2.2. Market Share & Forecast
 - 9.3.2.2.1. By Component
 - 9.3.2.2.2. By Application
 - 9.3.2.2.3. By Organization Size
 - 9.3.3. South Africa IoT Connectivity Market Outlook
 - 9.3.3.1. Market Size & Forecast
 - 9.3.3.1.1. By Value

9.3.3.2. Market Share & Forecast

9.3.3.2.1. By Component

9.3.3.2.2. By Application

9.3.3.2.3. By Organization Size

10. SOUTH AMERICA IOT CONNECTIVITY MARKET OUTLOOK

10.1. Market Size & Forecast

10.1.1. By Value

10.2. Market Share & Forecast

10.2.1. By Component

10.2.2. By Application

10.2.3. By Organization Size

10.2.4. By Country

10.3. South America: Country Analysis

10.3.1. Brazil IoT Connectivity Market Outlook

10.3.1.1. Market Size & Forecast

10.3.1.1.1. By Value

10.3.1.2. Market Share & Forecast

10.3.1.2.1. By Component

10.3.1.2.2. By Application

10.3.1.2.3. By Organization Size

10.3.2. Colombia IoT Connectivity Market Outlook

10.3.2.1. Market Size & Forecast

10.3.2.1.1. By Value

10.3.2.2. Market Share & Forecast

10.3.2.2.1. By Component

10.3.2.2.2. By Application

10.3.2.2.3. By Organization Size

10.3.3. Argentina IoT Connectivity Market Outlook

10.3.3.1. Market Size & Forecast

10.3.3.1.1. By Value

10.3.3.2. Market Share & Forecast

10.3.3.2.1. By Component

10.3.3.2.2. By Application

10.3.3.2.3. By Organization Size

11. MARKET DYNAMICS

11.1. Drivers

11.2. Challenges

12. MARKET TRENDS AND DEVELOPMENTS

12.1. Merger & Acquisition (If Any)

12.2. Product Launches (If Any)

12.3. Recent Developments

13. COMPANY PROFILES

13.1. AT&T Inc.

13.1.1. Business Overview

13.1.2. Key Revenue and Financials

13.1.3. Recent Developments

13.1.4. Key Personnel

13.1.5. Key Product/Services Offered

13.2. Verizon Communications Inc.

13.3. Telefónica, S.A.

13.4. China Mobile Limited

13.5. Orange S.A.

13.6. T-Mobile US, Inc.

13.7. Cisco Systems, Inc.

13.8. Qualcomm Incorporated

14. STRATEGIC RECOMMENDATIONS

15. ABOUT US & DISCLAIMER

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