

Internet of Things Market Forecasts to 2034 – Global Analysis By Component (Hardware, Software, and Services), Deployment (Cloud, On-Premises, and Hybrid), Connectivity Technology, Platform, Enterprise Size, End User, and By Geography

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Abstracts

According to Statistics MRC, the Global Internet of Things Market is accounted for \$711.0 billion in 2026 and is expected to reach \$1985.9 billion by 2034 growing at a CAGR of 13.7% during the forecast period. The Internet of Things refers to the network of interconnected physical devices embedded with sensors, software, and connectivity technologies that enable data collection, exchange, and remote monitoring. This market encompasses devices, platforms, connectivity solutions, and analytics services supporting applications across consumer, enterprise, industrial, and government sectors. The market includes cloud-based, on-premises, and hybrid deployment models, utilizing connectivity technologies including Wi-Fi, Bluetooth, Zigbee, Cellular, LPWAN, RFID, NFC, and Satellite. Rapid digital transformation, falling sensor costs, expanding connectivity infrastructure, and growing demand for automation and data-driven insights are key drivers of market expansion.

Market Dynamics:

Driver:

Rapid digital transformation across industries

The accelerating digital transformation across all industry verticals is a primary driver for the IoT market. Organizations are adopting IoT solutions to improve operational efficiency, enhance customer experiences, and create new revenue streams through

data-driven business models. Industrial IoT enables predictive maintenance, asset tracking, and process optimization across manufacturing, logistics, and energy sectors. Smart city initiatives are deploying IoT for traffic management, environmental monitoring, and public safety. The integration of IoT with artificial intelligence and cloud computing enables advanced analytics and automation, driving enterprise IoT adoption. As digital transformation accelerates globally, IoT solutions become essential for competitive advantage and operational excellence.

Restraint:

Security and privacy concerns

Significant security vulnerabilities and data privacy concerns represent major restraints for IoT market growth. The proliferation of connected devices creates expanded attack surfaces, with many devices lacking robust security features including encryption, authentication, and secure firmware updates. Compromised IoT devices can enable cyberattacks, data breaches, and privacy violations, eroding consumer and enterprise trust. Regulatory requirements for data protection and privacy, including GDPR and emerging IoT-specific regulations, impose compliance burdens on device manufacturers and platform providers. The complexity of securing diverse device ecosystems across multiple connectivity technologies creates implementation challenges. These security and privacy concerns slow adoption, particularly in sensitive applications including healthcare and critical infrastructure.

Opportunity:

Integration with 5G and edge computing

The deployment of 5G networks and advancement of edge computing present significant opportunities for IoT market expansion. 5G provides the high bandwidth, low latency, and massive device connectivity required for demanding IoT applications including autonomous vehicles, industrial automation, and real-time monitoring. Edge computing enables data processing close to devices, reducing latency and bandwidth requirements while enabling real-time decision-making. The combination of 5G and edge computing supports new IoT use cases including remote surgery, smart manufacturing, and augmented reality applications. As 5G network coverage expands and edge infrastructure develops, IoT adoption accelerates across new applications and industry verticals.

Threat:

Interoperability challenges and fragmented standards

The lack of universal interoperability standards and fragmented technology landscape pose significant threats to IoT market growth. The proliferation of proprietary protocols, disparate device ecosystems, and incompatible platforms creates integration challenges for organizations deploying multi-vendor IoT solutions. Interoperability issues limit device choice and increase implementation complexity and costs. Fragmented standards across connectivity technologies, data formats, and security protocols complicate development and deployment at scale. Industry fragmentation may slow market growth and create vendor lock-in risks. Without continued progress toward open standards and interoperability frameworks, IoT adoption may face barriers limiting full market potential.

Covid-19 Impact:

The COVID-19 pandemic accelerated IoT adoption across multiple sectors. Remote work requirements drove demand for IoT-enabled collaboration tools, smart office technologies, and home automation. Healthcare IoT applications including remote patient monitoring and telehealth expanded significantly. Supply chain IoT solutions for asset tracking, inventory management, and logistics optimization gained importance as organizations sought resilience. Industrial IoT supported manufacturing continuity with remote monitoring and automation. The pandemic highlighted the value of IoT for enabling business continuity. Post-pandemic, hybrid work models and focus on operational resilience sustain elevated IoT investment across all sectors.

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

The Cloud segment is expected to account for the largest market share during the forecast period, driven by advantages in scalability, cost-effectiveness, and accessibility for IoT deployments. Cloud-based IoT platforms eliminate upfront infrastructure investment and enable on-demand resource scaling, essential for IoT applications managing variable device volumes. Centralized data processing and storage support advanced analytics, machine learning applications, and unified device management. Integration with cloud services is seamless. The segment benefits from growing enterprise preference for cloud-based solutions across all sizes. As cloud adoption continues and IoT platforms mature, cloud-based IoT dominates market share.

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

Over the forecast period, the LPWAN segment is predicted to witness the highest growth rate, fueled by its ability to provide long-range, low-power connectivity essential for many IoT applications. LPWAN technologies enable battery-powered devices to communicate over kilometers, supporting applications including smart metering, asset tracking, environmental monitoring, and agricultural sensing. The segment benefits from growing adoption of NB-IoT and LoRaWAN technologies across regions. LPWAN is cost-effective for large-scale deployments requiring low data rates and long battery life. As utilities, cities, and industries deploy millions of sensors, LPWAN becomes the fastest-growing connectivity technology segment.

Region with largest share:

During the forecast period, the North America region is expected to hold the largest market share, supported by early technology adoption, significant investment in IoT infrastructure, and strong enterprise IoT adoption. The region's advanced digital infrastructure and technology leadership create favorable conditions for IoT deployment. Organizations across BFSI, healthcare, manufacturing, and energy sectors invest heavily in IoT solutions. Government initiatives supporting smart city development and industrial automation further drive IoT adoption. With strong innovation ecosystems and continuous technology investment, North America maintains its dominant market position.

Region with highest CAGR:

Over the forecast period, the Asia-Pacific region is anticipated to exhibit the highest CAGR, driven by rapid digital transformation, expanding industrial manufacturing, and government smart city initiatives. Countries including China, India, Japan, and South Korea are making significant IoT investments across manufacturing, infrastructure, and consumer sectors. Government policies promoting smart manufacturing and digital economy accelerate adoption. Large populations and expanding middle class create substantial consumer IoT markets. The region is a major manufacturing hub, generating significant industrial IoT demand. As digital transformation accelerates and IoT adoption becomes ubiquitous across sectors, Asia Pacific delivers the fastest IoT market growth globally.

Key players in the market

Some of the key players in Internet of Things Market include Cisco Systems, Inc., International Business Machines Corporation, Microsoft Corporation, Amazon Web Services, Inc., Intel Corporation, Oracle Corporation, SAP SE, PTC Inc., Siemens AG, Honeywell International Inc., Bosch Global, Schneider Electric SE, Qualcomm Incorporated, Dell Technologies Inc., Huawei Technologies Co., Ltd., Hitachi, Ltd., Arm Holdings plc, and Ericsson AB.

Key Developments:

In June 2026, Cisco published its 2026 State of Industrial AI Report, detailing the commercial release of its 'Agentic SOC' and AI-native networking operations designed to autonomously protect low-power Industrial IoT (IIoT) edge environments and secure unmanaged machinery pipelines.

In March 2026, Cisco collaborated with Tele2 IoT and IDEMIA Secure Transactions at Mobile World Congress (MWC) 2026 to launch a commercial end-to-end SGP.32 IoT solution, standardizing complex eSIM remote provisioning profiles across highly fragmented industrial device fleets.

In November 2025, Qualcomm expanded its microchip portfolio for smart retail and logistics by rolling out new low-power processors tailored specifically for batteryless 'Ambient IoT' electronic shelf labels (ESLs) and autonomous supply chain tag tracking.

Components Covered:

Hardware

Software

Services

Deployments Covered:

Cloud

On-Premises

Hybrid

Connectivity Technologies Covered:

Wi-Fi

Bluetooth

Zigbee

Cellular

LPWAN

RFID

NFC

Satellite

Platforms Covered:

Device Management

Application Management

Network Management

Connectivity Management

Enterprise Sizes Covered:

Large Enterprises

Small and Medium Enterprises (SMEs)

End Users Covered:

Manufacturing

Healthcare

BFSI

Retail

Transportation and Logistics

Energy and Utilities

Agriculture

Government

Smart Cities

Consumer Electronic

Other End Users

Regions Covered:

North America

United States

Canada

Mexico

Europe

United Kingdom

Germany

France

Italy

Spain

Netherlands

Belgium

Sweden

Switzerland

Poland

Rest of Europe

Asia Pacific

China

Japan

India

South Korea

Australia

Indonesia

Thailand

Malaysia

Singapore

Vietnam

Rest of Asia Pacific

South America

Brazil

Argentina

Colombia

Chile

Peru

Rest of South America

Rest of the World (RoW)

Middle East

Saudi Arabia

United Arab Emirates

Qatar

Israel

Rest of Middle East

Africa

South Africa

Egypt

Morocco

Rest of 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 2023, 2024, 2025, 2026, 2027, 2028, 2030, 2032 and 2034

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

- 1.1 Market Snapshot and Key Highlights
- 1.2 Growth Drivers, Challenges, and Opportunities
- 1.3 Competitive Landscape Overview
- 1.4 Strategic Insights and Recommendations

2 RESEARCH FRAMEWORK

- 2.1 Study Objectives and Scope
- 2.2 Stakeholder Analysis
- 2.3 Research Assumptions and Limitations
- 2.4 Research Methodology
 - 2.4.1 Data Collection (Primary and Secondary)
 - 2.4.2 Data Modeling and Estimation Techniques
 - 2.4.3 Data Validation and Triangulation
 - 2.4.4 Analytical and Forecasting Approach

3 MARKET DYNAMICS AND TREND ANALYSIS

- 3.1 Market Definition and Structure
- 3.2 Key Market Drivers
- 3.3 Market Restraints and Challenges
- 3.4 Growth Opportunities and Investment Hotspots
- 3.5 Industry Threats and Risk Assessment
- 3.6 Technology and Innovation Landscape
- 3.7 Emerging and High-Growth Markets
- 3.8 Regulatory and Policy Environment
- 3.9 Impact of COVID-19 and Recovery Outlook

4 COMPETITIVE AND STRATEGIC ASSESSMENT

- 4.1 Porter's Five Forces Analysis
 - 4.1.1 Supplier Bargaining Power
 - 4.1.2 Buyer Bargaining Power
 - 4.1.3 Threat of Substitutes
 - 4.1.4 Threat of New Entrants

- 4.1.5 Competitive Rivalry
- 4.2 Market Share Analysis of Key Players
- 4.3 Product Benchmarking and Performance Comparison

5 GLOBAL INTERNET OF THINGS MARKET, BY COMPONENT

- 5.1 Hardware
- 5.2 Software
- 5.3 Services

6 GLOBAL INTERNET OF THINGS MARKET, BY DEPLOYMENT

- 6.1 Cloud
- 6.2 On-Premises
- 6.3 Hybrid

7 GLOBAL INTERNET OF THINGS MARKET, BY CONNECTIVITY TECHNOLOGY

- 7.1 Wi-Fi
- 7.2 Bluetooth
- 7.3 Zigbee
- 7.4 Cellular
- 7.5 LPWAN
- 7.6 RFID
- 7.7 NFC
- 7.8 Satellite

8 GLOBAL INTERNET OF THINGS MARKET, BY PLATFORM

- 8.1 Device Management
- 8.2 Application Management
- 8.3 Network Management
- 8.4 Connectivity Management

9 GLOBAL INTERNET OF THINGS MARKET, BY ENTERPRISE SIZE

- 9.1 Large Enterprises
- 9.2 Small and Medium Enterprises (SMEs)

10 GLOBAL INTERNET OF THINGS MARKET, BY END USER

- 10.1 Manufacturing
- 10.2 Healthcare
- 10.3 BFSI
- 10.4 Retail
- 10.5 Transportation and Logistics
- 10.6 Energy and Utilities
- 10.7 Agriculture
- 10.8 Government
- 10.9 Smart Cities
- 10.10 Consumer Electronic
- 10.11 Other End Users

11 GLOBAL INTERNET OF THINGS MARKET, BY GEOGRAPHY

- 11.1 North America
 - 11.1.1 United States
 - 11.1.2 Canada
 - 11.1.3 Mexico
- 11.2 Europe
 - 11.2.1 United Kingdom
 - 11.2.2 Germany
 - 11.2.3 France
 - 11.2.4 Italy
 - 11.2.5 Spain
 - 11.2.6 Netherlands
 - 11.2.7 Belgium
 - 11.2.8 Sweden
 - 11.2.9 Switzerland
 - 11.2.10 Poland
 - 11.2.11 Rest of Europe
- 11.3 Asia Pacific
 - 11.3.1 China
 - 11.3.2 Japan
 - 11.3.3 India
 - 11.3.4 South Korea
 - 11.3.5 Australia
 - 11.3.6 Indonesia

- 11.3.7 Thailand
- 11.3.8 Malaysia
- 11.3.9 Singapore
- 11.3.10 Vietnam
- 11.3.11 Rest of Asia Pacific
- 11.4 South America
 - 11.4.1 Brazil
 - 11.4.2 Argentina
 - 11.4.3 Colombia
 - 11.4.4 Chile
 - 11.4.5 Peru
 - 11.4.6 Rest of South America
- 11.5 Rest of the World (RoW)
 - 11.5.1 Middle East
 - 11.5.1.1 Saudi Arabia
 - 11.5.1.2 United Arab Emirates
 - 11.5.1.3 Qatar
 - 11.5.1.4 Israel
 - 11.5.1.5 Rest of Middle East
 - 11.5.2 Africa
 - 11.5.2.1 South Africa
 - 11.5.2.2 Egypt
 - 11.5.2.3 Morocco
 - 11.5.2.4 Rest of Africa

12 STRATEGIC MARKET INTELLIGENCE

- 12.1 Industry Value Network and Supply Chain Assessment
- 12.2 White-Space and Opportunity Mapping
- 12.3 Product Evolution and Market Life Cycle Analysis
- 12.4 Channel, Distributor, and Go-to-Market Assessment

13 INDUSTRY DEVELOPMENTS AND STRATEGIC INITIATIVES

- 13.1 Mergers and Acquisitions
- 13.2 Partnerships, Alliances, and Joint Ventures
- 13.3 New Product Launches and Certifications
- 13.4 Capacity Expansion and Investments
- 13.5 Other Strategic Initiatives

14 COMPANY PROFILES

- 14.1 Cisco Systems, Inc.
- 14.2 International Business Machines Corporation
- 14.3 Microsoft Corporation
- 14.4 Amazon Web Services, Inc.
- 14.5 Intel Corporation
- 14.6 Oracle Corporation
- 14.7 SAP SE
- 14.8 PTC Inc.
- 14.9 Siemens AG
- 14.10 Honeywell International Inc.
- 14.11 Bosch Global
- 14.12 Schneider Electric SE
- 14.13 Qualcomm Incorporated
- 14.14 Dell Technologies Inc.
- 14.15 Huawei Technologies Co., Ltd.
- 14.16 Hitachi, Ltd.
- 14.17 Arm Holdings plc
- 14.18 Ericsson AB

List Of Tables

LIST OF TABLES

Table 1 Global Internet of Things Market Outlook, By Region (2023–2034) (\$MN)
Table 2 Global Internet of Things Market Outlook, By Component (2023–2034) (\$MN)
Table 3 Global Internet of Things Market Outlook, By Hardware (2023–2034) (\$MN)
Table 4 Global Internet of Things Market Outlook, By Software (2023–2034) (\$MN)
Table 5 Global Internet of Things Market Outlook, By Services (2023–2034) (\$MN)
Table 6 Global Internet of Things Market Outlook, By Deployment (2023–2034) (\$MN)
Table 7 Global Internet of Things Market Outlook, By Cloud (2023–2034) (\$MN)
Table 8 Global Internet of Things Market Outlook, By On-Premises (2023–2034) (\$MN)
Table 9 Global Internet of Things Market Outlook, By Hybrid (2023–2034) (\$MN)
Table 10 Global Internet of Things Market Outlook, By Connectivity Technology (2023–2034) (\$MN)
Table 11 Global Internet of Things Market Outlook, By Wi-Fi (2023–2034) (\$MN)
Table 12 Global Internet of Things Market Outlook, By Bluetooth (2023–2034) (\$MN)
Table 13 Global Internet of Things Market Outlook, By Zigbee (2023–2034) (\$MN)
Table 14 Global Internet of Things Market Outlook, By Cellular (2023–2034) (\$MN)
Table 15 Global Internet of Things Market Outlook, By LPWAN (2023–2034) (\$MN)
Table 16 Global Internet of Things Market Outlook, By RFID (2023–2034) (\$MN)
Table 17 Global Internet of Things Market Outlook, By NFC (2023–2034) (\$MN)
Table 18 Global Internet of Things Market Outlook, By Satellite (2023–2034) (\$MN)
Table 19 Global Internet of Things Market Outlook, By Platform (2023–2034) (\$MN)
Table 20 Global Internet of Things Market Outlook, By Device Management (2023–2034) (\$MN)
Table 21 Global Internet of Things Market Outlook, By Application Management (2023–2034) (\$MN)
Table 22 Global Internet of Things Market Outlook, By Network Management (2023–2034) (\$MN)
Table 23 Global Internet of Things Market Outlook, By Connectivity Management (2023–2034) (\$MN)
Table 24 Global Internet of Things Market Outlook, By Enterprise Size (2023–2034) (\$MN)
Table 25 Global Internet of Things Market Outlook, By Large Enterprises (2023–2034) (\$MN)
Table 26 Global Internet of Things Market Outlook, By Small and Medium Enterprises (SMEs) (2023–2034) (\$MN)
Table 27 Global Internet of Things Market Outlook, By End User (2023–2034) (\$MN)

Table 28 Global Internet of Things Market Outlook, By Manufacturing (2023–2034) (\$MN)

Table 29 Global Internet of Things Market Outlook, By Healthcare (2023–2034) (\$MN)

Table 30 Global Internet of Things Market Outlook, By BFSI (2023–2034) (\$MN)

Table 31 Global Internet of Things Market Outlook, By Retail (2023–2034) (\$MN)

Table 32 Global Internet of Things Market Outlook, By Transportation and Logistics (2023–2034) (\$MN)

Table 33 Global Internet of Things Market Outlook, By Energy and Utilities (2023–2034) (\$MN)

Table 34 Global Internet of Things Market Outlook, By Agriculture (2023–2034) (\$MN)

Table 35 Global Internet of Things Market Outlook, By Government (2023–2034) (\$MN)

Table 36 Global Internet of Things Market Outlook, By Smart Cities (2023–2034) (\$MN)

Table 37 Global Internet of Things Market Outlook, By Consumer Electronics (2023–2034) (\$MN)

Table 38 Global Internet of Things Market Outlook, By Other End Users (2023–2034) (\$MN)

Note: Tables for North America, Europe, APAC, South America, and Rest of the World (RoW) Regions are also represented in the same manner as above.

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