

# **Global Artificial Intelligence of Things (AIoT) Market Size study, by Deployment (Cloud-based, Edge AIoT), by Application (Video Surveillance, Robust Asset Management, Inventory Management, Energy Consumption Management, Predictive Maintenance, Real-Time Machinery Condition Monitoring, Supply Chain Management), by Industry (Healthcare, Automotive & Transportation, Retail, Agriculture, Manufacturing, Logistics, BFSI, Others), and Regional Forecasts 2022-2032**

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## **Abstracts**

Global Artificial Intelligence of Things (AIoT) Market, valued at approximately USD 35.65 billion in 2023, is poised for substantial growth with a forecasted compound annual growth rate (CAGR) of 32.4% from 2024 to 2032. Artificial Intelligence of Things (AIoT) is a transformative technology that merges artificial intelligence (AI) with the Internet of Things (IoT), facilitating data collection, learning, and planning capabilities in machines. This convergence has led to widespread applications across diverse domains, including transportation, smart homes, manufacturing, and healthcare, thereby modernizing industries and enhancing individuals' quality of life.

The increasing adoption of IoT devices, enhancements in computing power, advancements in AI algorithms, and the demand for efficient operations and data-driven insights have collectively fueled the growing demand for AIoT solutions. Sectors such as agriculture, smart homes, healthcare, manufacturing, and transportation are actively leveraging AIoT to boost production, improve consumer experiences, reduce costs, and

gain a competitive edge. For instance, Amazon Go stores revolutionized retail with AIoT by integrating IoT devices that automate transactions and inventory management, thus significantly enhancing the shopping experience. The development of sustainable smart cities presents a significant market opportunity for the AIoT market, as AIoT solutions facilitate process automation, intelligent decision-making, and increased efficiency in energy and water management. However, the integration of AI and IoT devices raises significant security and privacy concerns. The vast amounts of data collected and analyzed by AIoT systems, including personal and sensitive information, make them vulnerable to cyberattacks. Ensuring data privacy and protecting AIoT networks from cyber threats are critical challenges that could impede market growth.

The key regions considered for the Global Artificial Intelligence of Things (AIoT) Market study include Asia Pacific, North America, Europe, Latin America, and Rest of the World. North America is a dominating region in the Global Artificial Intelligence of Things (AIoT) Market in terms of revenue. The market growth in the region is being attributed to factors including the widespread adoption of IoT across various sectors. The region's rapid deployment of sensors and IoT devices to enhance operational efficiency has contributed to its leading market share. Whereas, the market in the Asia Pacific is anticipated to grow at the fastest rate over the forecast period fueled by the large population, widespread adoption of internet and mobile technologies, and thriving manufacturing sector are key drivers of AIoT demand.

Major market players included in this report are:

BOSCH (Germany)  
Advantech Co., Ltd. (Taiwan)  
Nvidia Corporation (U.S.)  
CMS Info Systems (India)  
Amazon Web Services (U.S.)  
Microsoft Corporation (U.S.)  
Inventec Corporation (Taiwan)  
Intel Corporation (U.S.)  
Qualcomm (U.S.)  
ARM (U.K.)  
PTC (U.S.)  
Google LLC  
IBM Corporation  
Samsung Electronics Co., Ltd.  
Huawei Technologies Co., Ltd.

Cisco Systems, Inc.

The detailed segments and sub-segment of the market are explained below:

By Deployment:

Cloud-based

Edge AIoT

By Application:

Video Surveillance

Robust Asset Management

Inventory Management

Energy Consumption Management

Predictive Maintenance

Real-Time Machinery Condition Monitoring

Supply Chain Management

By Industry:

Healthcare

Automotive & Transportation

Retail

Agriculture

Manufacturing

Logistics

BFSI

Others (Oil & Gas)

By Region:

North America

U.S.

Canada

Europe

UK

Germany

France

Spain

Italy

ROE

Asia Pacific

China

India

Japan

Australia

South Korea

RoAPAC

Latin America

Brazil

Mexico

Rest of Latin America

Middle East & Africa

Saudi Arabia

South Africa

RoMEA

Years considered for the study are as follows:

Historical year – 2022

Base year – 2023

Forecast period – 2024 to 2032

Key Takeaways:

Market Estimates & Forecast for 10 years from 2022 to 2032.

Annualized revenues and regional level analysis for each market segment.

Detailed analysis of geographical landscape with Country level analysis of major regions.

Competitive landscape with information on major players in the market.

Analysis of key business strategies and recommendations on future market approach.

Analysis of competitive structure of the market.

Demand side and supply side analysis of the market.

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