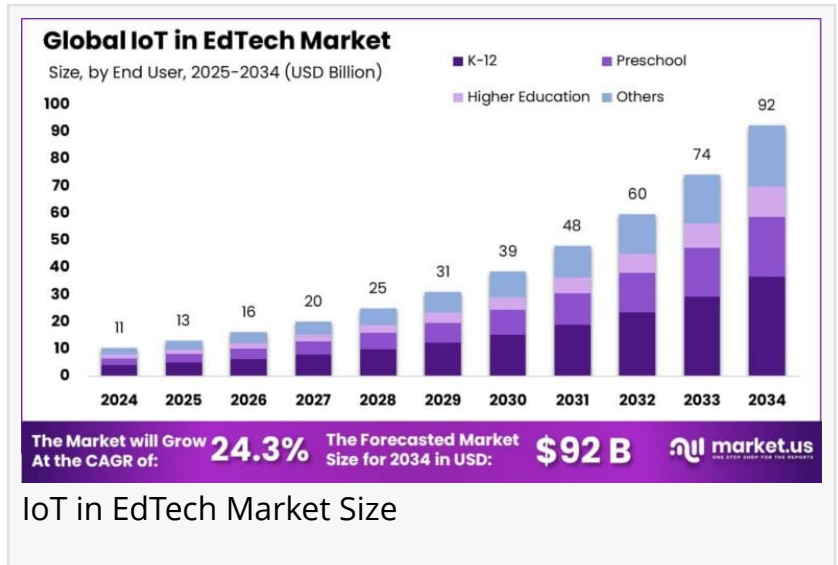


# IoT in EdTech Market Driven by a Surge at CAGR of 24.3%, Revenue at USD 92 billion by 2034, Region at 24.8% Share

*In 2024, North America had a dominant position in the IoT in EdTech market, capturing more than a 41.8% share, with revenues reaching USD 4.3 billion...*

NEW YORK, NY, UNITED STATES, February 4, 2025 /EINPresswire.com/ -- The [IoT in EdTech Market](#) is set to thrive, expanding from USD 10.5 billion in 2024 to an estimated USD 92 billion by 2034, at a strong CAGR of 24.3%. This growth is driven by a surge in innovative educational technologies and increased adoption of IoT solutions within educational settings.



As institutions increasingly adopt hybrid and digital learning models, IoT becomes essential in bridging traditional and modern educational frameworks, enabling personalized and efficient learning experiences.



*In 2024, the Hardware segment dominated the IoT in the EdTech market, capturing more than a 48.2% share..."*

*Tajammul Pangarkar*

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North America currently leads the market, with over 41.8% share, attributed to its robust technological infrastructure

and significant investment in IoT advancements. Key applications such as learning and classroom management systems are central to this market, addressing the diverse educational needs from K-12 to higher education.

Enhanced operational efficiencies and personalized learning are major benefits driving adoption, setting the stage for transformative changes in the education sector.

## Key Takeaways

The Global IoT in EdTech Market size is projected to reach USD 92 Billion by 2034, up from USD 10.5 Billion in 2024, growing at a CAGR of 24.30% during the forecast period from 2025 to 2034.

In 2024, the Hardware segment dominated the IoT in the EdTech market, capturing more than a 48.2% share.

The Learning Management System (LMS) segment also held a dominant position in the market in 2024, with a 25.6% market share.

In 2024, the K-12 segment was the leader in the IoT in the EdTech sector, securing more than a 39.6% share.

In 2024, North America had a dominant position in the IoT in the EdTech market, capturing more than a 41.8% share, with revenues reaching USD 4.3 billion.

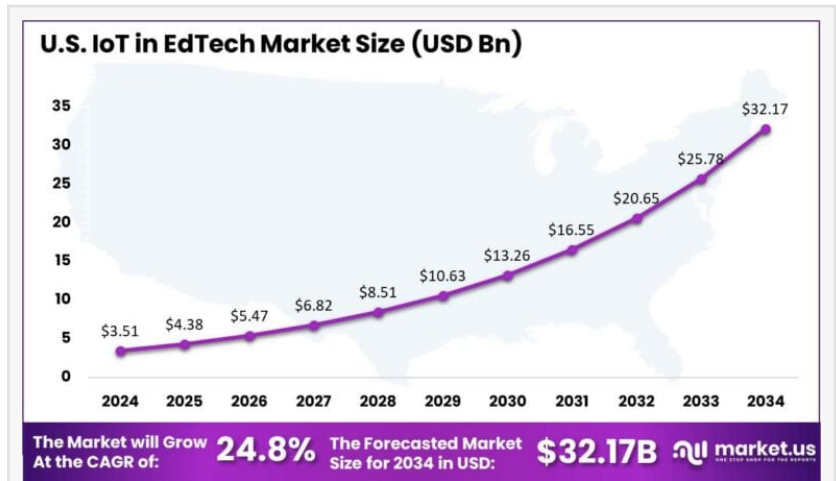
The U.S. market for IoT in EdTech was valued at USD 3.51 billion in 2024, and it is expected to experience significant growth, with a projected CAGR of 24.8%.

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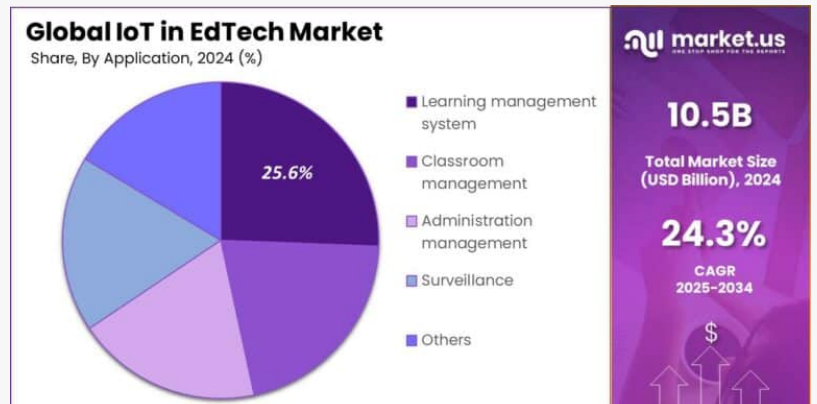
## Experts Review

Experts emphasize the benefits of integrating IoT in education, particularly in personalized learning and administrative efficiencies. Government initiatives promoting digital education are central drivers, with significant funding targeting IoT infrastructure in schools. Technological innovations, including advanced learning analytics and IoT-enabled classroom environments, enhance learning experiences by adapting content to individual needs.

Investment opportunities abound, yet are accompanied by risks related to [cybersecurity](#) and data privacy. As IoT technologies continue to evolve, they promise to transform educational methodologies, resulting in improved learning outcomes and operations. Consumer awareness, including educators and parents, creates demand for connected educational systems.



## IoT in EdTech Market Size US



## IoT in EdTech Market Share

The regulatory environment remains supportive, with policies that foster IoT assimilation in education, although challenges like digital equity persist. Overall, the shift towards IoT represents a crucial step in modernizing educational landscapes globally.

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## Report Segmentation

The IoT in EdTech Market is segmented by component, application, and end-user, providing a comprehensive analysis of the sector. Component segmentation includes hardware, solutions, and services, with hardware capturing the largest share due to its critical role in establishing IoT infrastructure in educational environments.

Application segmentation encompasses learning management systems, classroom management, administration, and surveillance, highlighting key areas where IoT facilitates transformative educational practices. End-user segmentation spans K-12, preschool, and higher education, showcasing the broad applicability of IoT across diverse educational settings.

Regionally, the market analysis covers North America, Europe, Asia-Pacific, Latin America, and the Middle East & Africa, offering insights into regional dynamics and technology adoption rates. Each segment contributes uniquely to the overall market, emphasizing the role of IoT in enhancing educational quality and operational efficiencies.

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## Key Market Segments

### By Component

- Hardware
- Solution
  - Network management
  - Content management and analytics
  - Device management
  - Application management
  - Security management
  - Others
- Services
  - Professional services
  - Training and consulting
  - Deployment and integration

-----Support and maintenance

----Managed services

By Application

Learning management system

Classroom management

Administration management

Surveillance

Others (study tools, learning analytics, online to offline, course material management, test preparation management, and online learning, etc.)

By End User

K-12

Preschool

Higher Education

Others

Drivers, Restraints, Challenges, and Opportunities

**Drivers:** The integration of IoT in education is spurred by the need for enhanced learning experiences and operational efficiencies. Devices like smartwatches and VR tools transform educational engagement, catering to personalized learning styles.

**Restraints:** High initial costs and ongoing expenses for maintaining IoT infrastructure, coupled with cybersecurity risks, constrain widespread adoption.

**Challenges:** Ensuring digital equity and addressing cybersecurity threats are pivotal challenges, as educational institutions must secure sensitive data across interconnected systems.

**Opportunities:** The rise of personalized learning through [data analytics](#) offers substantial opportunities for tailoring educational experiences to individual student needs, and optimizing learner engagement and outcomes.

Key Player Analysis

Leading companies in the IoT in the EdTech Market include Google LLC, Amazon Web Services, Inc., IBM, Microsoft Corporation, and Cisco Systems, Inc. Each player contributes to advancing IoT integration in educational systems through specialized solutions. Google's impact is notable with its educator-centered platforms that support various IoT-enabled devices.

Amazon's robust cloud solutions enable schools to handle data from IoT applications efficiently. IBM focuses on AI and IoT synergies, enhancing data-driven learning through its Watson platform. Meanwhile, Microsoft and Cisco provide essential tools for developing smart

educational infrastructures. These companies drive innovation, leveraging their expertise to shape the future of technology-enhanced education.

### Top Key Players in the Market

Google LLC

Amazon Web Services, Inc.

IBM

Microsoft Corporation

Oracle Corporation

Intel Corporation

Cisco Systems, Inc.

SAP SE

Huawei Technologies Co., Ltd.

Arm Limited

Unit4

Samsung

Others

### Recent Developments

Recent advancements in the IoT in EdTech sector include IBM's acquisition of Applications Software Technology LLC, aimed at enhancing Oracle Cloud Applications for educational sectors. Microsoft introduced AI tools at the Reimagine Education event in March 2024 to boost educational experiences. Oracle launched its Enterprise Communications Platform (ECP) for secure, real-time educational communications, enhancing classroom interactivity and learning environments.

AWS announced the general availability of Amazon Bedrock in May 2024, enabling EdTech firms to develop AI solutions for education in the Asia Pacific region. These developments reflect ongoing innovations enhancing IoT's role in education, fostering adaptive learning environments and improving infrastructure for educational institutions.

### Conclusion

The IoT in EdTech Market is poised for significant growth, driven by technological advancements and increased investment in the digitalization of education. Challenges such as costs and security concerns must be addressed to maximize IoT's potential. As educational institutions progressively adopt these technologies, improved learning outcomes and operational efficiencies become apparent.

IoT stands as a pivotal force in transforming educational landscapes, heralding a future where data-driven, personalized learning experiences can thrive. Continued innovation and strategic

investments in IoT infrastructure will be key to fully realizing its potential in enhancing global educational systems.

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