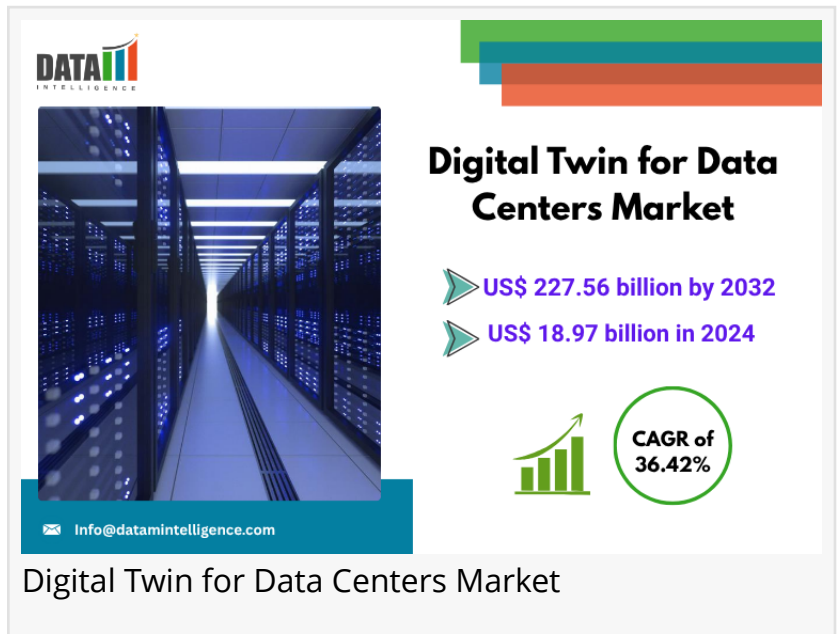


Digital Twin for Data Centers Market: From \$18.97B in 2024 to \$227.56B by 2032, Driven by AI & IoT | DataM Intelligence

Digital Twin for Data Centers to reach \$227.56B by 2032, fueled by AI, green goals, and rising need for real-time, predictive infrastructure control.

NEW YORK, NY, UNITED STATES, June 10, 2025 /EINPresswire.com/ -- Market Overview :

The [Digital Twin for Data Centers Market](#) is witnessing an explosive transformation, driven by the rising need for real-time monitoring, predictive maintenance, and operational efficiency in complex data center infrastructures. A digital twin is a virtual replica of physical assets or systems, enabling simulation, data analysis, and system optimization in real-time. As enterprises and hyperscale data centers grow in scale and complexity, the demand for digital twin technologies is escalating. In 2024, the market stood at US\$ 18.97 billion and is projected to soar to US\$ 227.56 billion by



“

As digital complexity grows, the power to simulate, predict, and optimize with digital twins is transforming how data centers operate in real-time.”

DataM Intelligence

2032, registering an impressive CAGR of 36.42% throughout the forecast period.

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Market Drivers are ;

Explosion of Data Volume: The exponential growth of data

from cloud computing, AI, and IoT applications is pressuring data centers to enhance performance and reduce downtime.

Demand for Energy Efficiency: Digital twins help in monitoring and simulating energy usage, supporting greener and more sustainable operations.

Rising Need for Predictive Maintenance: Digital twins enable proactive maintenance by predicting failures before they occur, reducing operational costs.

Integration with AI and Machine Learning: AI-enhanced digital twins improve forecasting and decision-making capabilities for facility managers.

Remote Monitoring and Management: Growing demand for remote capabilities post-COVID-19 has increased digital twin adoption for managing multi-site data centers.

Enhanced Security and Risk Management: Simulating attack scenarios through digital twins allows data centers to improve cybersecurity protocols.

Key Players in the Market :

The market features a robust competitive landscape led by prominent technology and infrastructure players:

Siemens AG

Schneider Electric

IBM Corporation

Bentley Systems

Ansys, Inc.

Microsoft Corporation

Dassault Systèmes

Johnson Controls International

Cadence Design Systems

Honeywell International Inc.

These companies are driving innovations through collaborations, digital twin software development, and cloud integration for next-gen data center infrastructure.

Market Segmentation :

The market is segmented based on component, application, deployment model, and region:

By Component: Software, Services

By Application: Energy management, Infrastructure management, Security, Performance monitoring

By Deployment: On-premise, Cloud

By Region: Asia-Pacific, South America, North America, Middle East, Africa & Europe

Cloud-based deployment is gaining significant traction due to its scalability and cost efficiency, particularly among colocation and hyperscale data centers.

Latest News of USA "

In 2024, Microsoft introduced an AI-driven digital twin solution tailored for its U.S. data centers, targeting up to a 20% reduction in energy consumption.

Schneider Electric also announced a strategic expansion of its digital twin-enabled EcoStruxure platform across multiple U.S. colocation centers, focusing on real-time thermal mapping and load balancing.

Latest News of Japan:

In Japan, Hitachi partnered with Schneider Electric in 2024 to roll out digital twin solutions across major metropolitan data hubs in Tokyo and Osaka. The Japanese government is also backing smart infrastructure projects to embed digital twin models in public and private data centers to ensure disaster resilience and sustainability.

Additionally, Fujitsu launched a pilot program using digital twins for carbon footprint tracking in its data centers, aligning with Japan's Green Transformation (GX) initiative.

Recent Key Developments are ;

Siemens integrated edge analytics into its twin platforms for faster response times.

Bentley Systems launched a cloud-native visualization engine for real-time digital twin rendering.

Dassault Systèmes released a VR-ready twin module to assist in remote collaboration for data center design.

Johnson Controls announced a partnership to integrate AI-driven environment controls with digital twin platforms.

Conclusion :

As the demand for optimized, energy-efficient, and resilient data centers grows, digital twins are no longer a futuristic concept; they are now a strategic necessity. The Digital Twin for Data Centers Market is on a trajectory of exponential growth, fueled by technological advancements and the pressing need for smarter infrastructure management. With innovation led by key players and rising global demand, this market promises not just better data center performance, but also a blueprint for the future of intelligent infrastructure.

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Sai Kumar

DataM Intelligence 4market Research LLP

+1 877-441-4866

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