+357 96 030922
info@marketpublishers.com

Global Digital Thread Market Size Study, by Technology (PLM, IoT, AI), Module, Deployment, Application, Vertical, and Regional Forecasts 2022-2032

https://marketpublishers.com/r/GC5ABF4C514DEN.html
Date: January 2025
Pages: 285
Price: US$ 3,218.00 (Single User License)
ID: GC5ABF4C514DEN

Abstracts

The global digital thread market is poised to witness a significant expansion, with its valuation projected to grow from USD 9.40 billion in 2023 to USD 54.24 billion by 2032, marking a robust CAGR of 21.5% during the forecast period from 2024 to 2030. This remarkable growth trajectory is driven by several pivotal factors, including the rising demand for IoT and connected devices, the critical need for enhanced product quality and operational efficiency, and the imperative to comply with stringent regulatory standards. Additionally, the convergence of artificial intelligence (AI) and machine learning (ML) with Industry 4.0 principles is accelerating the adoption of digital thread solutions. These systems are transforming industries by optimizing operations, improving decision-making processes, and promoting sustainable production methodologies.

The digital thread market encapsulates an ecosystem where seamless integration of data and processes across the entire product lifecycle is made possible. By employing cutting-edge technologies, such as cloud computing and AI-powered analytics, digital thread solutions empower businesses to gain unprecedented insights, foster real-time collaboration, and ensure operational agility. These capabilities are instrumental in addressing the growing trend towards personalization, customization, and sustainability, which are becoming critical differentiators across industries.

The adoption of Product Lifecycle Management (PLM) solutions remains a cornerstone of the digital thread market. By enabling organizations to manage a product's lifecycle from conception to disposal, PLM solutions enhance data accessibility, ensure

+357 96 030922
info@marketpublishers.com

compliance, and streamline operations, making them indispensable tools for modern enterprises. Furthermore, the market's expansion is fueled by increased deployment in industries such as automotive, where digital threads enable seamless data flow, optimize supply chains, and enhance product quality and efficiency.

Key Insights into the Market's Growth Segments

The automotive sector dominates the digital thread market due to its ability to leverage digital thread solutions across the vehicle lifecycle, from design and manufacturing to operation and maintenance. By integrating data from various production stages, digital threads empower automakers to optimize processes, improve quality control, and enhance innovation.

Cloud-based deployments lead the market with their scalability, cost-effectiveness, and ability to support remote collaboration. These solutions enable real-time data integration and analytics, ensuring robust security and compliance while enhancing operational efficiency. Their increasing adoption underscores the growing reliance on cloud infrastructure for managing complex digital threads.

Regional Outlook

North America maintains its dominance in the global digital thread market, attributed to early adoption of advanced technologies such as IoT, AI, and cloud computing. The region's well-established industrial base across sectors like aerospace, automotive, and pharmaceuticals ensures sustained demand for digital thread solutions. Innovation-centric industries and a focus on enhancing operational efficiency further bolster the region's market leadership.

The Asia Pacific region is witnessing accelerated growth, fueled by rapid industrialization, government initiatives promoting smart infrastructure, and the proliferation of connected technologies. Countries like China, Japan, and India are driving regional demand, leveraging digital threads for enhanced productivity, resource optimization, and innovation.

Key players in the global digital thread market include:

PTC (US)

IBM (US)

+357 96 030922
info@marketpublishers.com

Siemens (Germany)

Dassault Syst?mes (France)

Rockwell Automation (US)

Autodesk, Inc. (US)

Oracle (US)

AVEVA Group Limited (UK)

SAP (Germany)

General Electric (US)

Accenture (Ireland)

These companies are at the forefront of innovation, leveraging their extensive portfolios and technological expertise to cater to diverse industry requirements.

The Detailed Segments and Sub-segments of the Market are Explained Below:

By Technology

Product Lifecycle Management (PLM)

Internet of Things (IoT)

Artificial Intelligence (AI)

By Module

Design and Engineering

Manufacturing

+357 96 030922
info@marketpublishers.com

- Operations and Maintenance
- Supply Chain Management

By Deployment

- Cloud-based
- On-premises

By Application

- Predictive Maintenance
- Quality Management
- Inventory Management
- Others

By Vertical

- Automotive
- Aerospace & Defense
- Healthcare
- Industrial Manufacturing
- Others

By Region:

+357 96 030922
info@marketpublishers.com

North America: U.S., Canada, Mexico

Europe: UK, Germany, France, Italy, Spain, Netherlands, Rest of Europe

Asia Pacific: China, Japan, India, South Korea, Australia, Rest of Asia Pacific

Latin America: Brazil, Mexico, Rest of Latin America

Middle East & Africa: UAE, Saudi Arabia, South Africa, Rest of Middle East & Africa

Years Considered for the Study:

Historical Year: 2022

Base Year: 2023

Forecast Period: 2024–2032

Key Takeaways:

Market estimates and forecasts spanning 10 years (2022–2032).

Annualized revenue projections and regional-level analysis for each segment.

Competitive analysis of key players and market strategies.

Insights into emerging trends and disruptive technologies driving growth.

Comprehensive demand-side and supply-side assessments to inform strategic decision-making.

+357 96 030922
info@marketpublishers.com

Contents

+357 96 030922
info@marketpublishers.com

CHAPTER 3. GLOBAL DIGITAL THREAD MARKET DYNAMICS

CHAPTER 4. GLOBAL DIGITAL THREAD MARKET INDUSTRY ANALYSIS

CHAPTER 5. GLOBAL DIGITAL THREAD MARKET SIZE & FORECAST BY TECHNOLOGY (2022–2032)

+357 96 030922
info@marketpublishers.com

+357 96 030922
info@marketpublishers.com

CHAPTER 9. GLOBAL DIGITAL THREAD MARKET SIZE & FORECAST BY VERTICAL (2022–2032)

CHAPTER 10. GLOBAL DIGITAL THREAD MARKET SIZE & FORECAST BY REGION (2022–2032)

+357 96 030922
info@marketpublishers.com

CHAPTER 11. COMPETITIVE INTELLIGENCE

CHAPTER 12. RESEARCH PROCESS

+357 96 030922
info@marketpublishers.com

12. LIST OF TABLES

12. LIST OF FIGURES

This list is not exhaustive. The final report will contain more detailed tables and figures.

+357 96 030922
info@marketpublishers.com

I would like to order

Product name: Global Digital Thread Market Size Study, by Technology (PLM, IoT, AI), Module, Deployment, Application, Vertical, and Regional Forecasts 2022-2032

Product link: https://marketpublishers.com/r/GC5ABF4C514DEN.html

Price: US$ 3,218.00 (Single User License / Electronic Delivery)

If you want to order Corporate License or Hard Copy, please, contact our Customer Service:
info@marketpublishers.com

Payment

To pay by Credit Card (Visa, MasterCard, American Express, PayPal), please, click button on product page https://marketpublishers.com/r/GC5ABF4C514DEN.html