

# **Digital Thread Market Size, Share & Trends Analysis Report By Deployment (On-Premises, Cloud-Based), By End User (Automotive, Aerospace), By Module, By Technology, By Region, And Segment Forecasts, 2025 - 2030**

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## **Abstracts**

This report can be delivered to the clients within 2 Business Days

### **Digital Thread Market Summary**

The global digital thread market size was estimated at USD 12.01 billion in 2024 and is projected to reach USD 36,074.3 million by 2030, growing at a CAGR of 20.6% from 2025 to 2030. The market growth is primarily driven by the rising adoption of Industry 4.0 practices and the increasing demand for real-time data.

The need for enhanced product traceability and operational efficiency is pushing manufacturers to implement digital thread solutions. The growing emphasis on predictive maintenance and digital twins amplifies the use of digital thread technologies in aerospace, automotive, and defense sectors. Organizations strive to achieve greater agility and innovation, the digital thread is becoming a critical enabler of data-driven decision-making, significantly contributing to market expansion. The increasing adoption of Industry 4.0 technologies is significantly influencing market growth. Manufacturers strive for smarter and more connected operations; digital thread solutions are becoming essential for linking design, production, and service data into a cohesive digital ecosystem. This integration enables real-time decision-making, predictive maintenance, and improved product quality. As industries modernize their infrastructure, the demand for digital thread frameworks to support agile and data-driven operations is accelerating rapidly, thereby enhancing the overall digital thread industry.

The rising need for product lifecycle management (PLM) and digital twin technologies propels the market forward. Creating seamless data flow from concept to end-of-life, digital threads allow for accurate simulation, performance monitoring, and continuous improvement of products. This comprehensive visibility reduces development cycles, mitigates errors, and enhances collaboration among engineering, manufacturing, and service teams, making it a critical enabler in highly regulated industries such as aerospace, automotive, and healthcare.

Furthermore, the growing emphasis on regulatory compliance and quality assurance across industries is reshaping the digital thread landscape. Companies are required to maintain traceability, documentation, and compliance across all stages of the product lifecycle. Digital threads offer an efficient way to collect, store, and retrieve historical data, making audits smoother and faster. This has led to increased adoption of digital thread solutions in sectors like defense, pharmaceuticals, and food production.

Moreover, the rapid evolution of cloud computing and Internet of Things (IoT) platforms presents valuable opportunities for expanding the digital thread industry. Cloud-based platforms facilitate real-time data access, and IoT devices generate continuous streams of operational information. Digital thread systems can connect more endpoints and scale faster. This connectivity enables businesses to track products from design to disposal, optimize resource use, and uncover new value opportunities, further driving market growth.

## Global Digital Thread Market Report Segmentation

This report forecasts revenue growth at the global, regional, and country levels and provides an analysis of the latest technological trends in each of the sub-segments from 2018 to 2030. For this study, Grand View Research has segmented the global digital thread market report based on technology, deployment, module, end user, and region:

Technology Outlook (Revenue, USD Million, 2018 - 2030)

Product Lifecycle Management

Computer-Aided Manufacturing

Application Lifecycle Management

Material Requirements Planning

Enterprise Resource Planning

Manufacturing Execution System

Others

Deployment Outlook (Revenue, USD Million, 2018 - 2030)

On-Premises

Cloud-Based

Module Outlook (Revenue, USD Million, 2018 - 2030)

Data Collection

Connectivity and Interoperability

Data Analysis and Visualization

Data Management and Integration

Others

End User Outlook (Revenue, USD Million, 2018 - 2030)

Automotive

Aerospace

Energy and Power

Pharmaceutical

Oil and Gas

Consumer Goods

Others

Regional Outlook (Revenue, USD Million, 2018 - 2030)

North America

U.S.

Canada

Mexico

Europe

UK

Germany

France

Asia Pacific

China

Japan

India

South Korea

Australia

Latin America

Brazil

Middle East & Africa

UAE

Saudi Arabia

South Africa

### **Companies Mentioned**

Siemens AG

PTC

Dassault Syst?mes

General Electric

IBM

Oracle

SAP SE

Rockwell Automation

Autodesk Inc.

Accenture

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