

**Digital Thread Market by Technology (PLM, SLM, CAD, MES, IoT, ERP, edge computing, Digital Twin, ALM, SCADA), Module (Data collection, Data management & Integration), Deployment, Application, Vertical, Region - Global Forecast to 2030**

Market Report | 2024-09-25 | 265 pages | MarketsandMarkets

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**Report description:**

The increasing demand for real-time data analytics, automation, digitization, asset performance optimization, and predictive maintenance is driving the digital thread market, which is expected to grow from USD 11.42 billion in 2024 to USD 36.81 billion by 2030, with a 21.5% CAGR during this period. Advancements in IoT, AI, and cloud computing, the emergence of Industry 4.0 and smart manufacturing, and the demand for increased PLM are all key drivers of this expansion. Furthermore, regulatory compliance, the demand for customization, sustainability considerations, and the complexities of global supply chains are major drivers in the industry.

"Edge computing segment is expected to grow with highest CAGR during forecast period"

Edge computing is a networking technology that moves data storage and computing closer to the source of data. Edge computing technology segment in digital thread market is expected to grow with highest CAGR during forecast period. Edge computing uses digital threads to process data in real time. It combines data from edge devices into centralized systems, allowing for localized decision-making. It improves predictive maintenance, bandwidth optimization, and data security. By doing so, the digital thread with edge computing reduces latency and simplifies compliance, ensuring the system's overall efficiency for responsive and intelligent operations in remote environments.

"Automotive segment holds the largest market share of digital thread market in 2023"

The automotive industry holds the largest share in digital thread market, as it requires the management of very complex manufacturing processes with extended supply chains and tight regulatory compliance. With digital threads, fully integrated data across a vehicle's lifecycle-from design and production onwards-fosters innovation, personalization, and efficiency. This also enables the industries to meet the standards of safety requirements, efficient supply chains, and cost economy; thus, digital

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threads are indispensable for automotive processes.

"Cloud-based digital thread segment is expected to grow with highest CAGR during the forecast period"

The digital thread market is segmented into two deployment types such as on-premises and cloud-based. The cloud-based digital thread category is predicted to develop at the highest CAGR due to its scalability, cost-effectiveness, and flexibility. Cloud solutions include real-time data processing and integration, remote access and collaboration, and powerful analytics and AI tools. These advantages encourage the spread of cloud-based digital threads because they offer a more adaptive and cost-effective solution to managing and optimizing complicated data across industries. These advantages encourage the spread of cloud-based digital threads because they offer a more adaptive and cost-effective solution to managing and optimizing complicated data across industries.

"The US holds the largest market share of digital thread market in 2023."

North America comprises the US, Canada, and Mexico. Of these, the US captures the maximum market share of North America. The US is expected to contribute significantly to market growth due to the enhanced adoption of technology and product development. Being a global leader in innovation, particularly in precision engineering and manufacturing, the digital thread market of the United States is on a surge.

The growth of the market in US is also attributed to presence of prominent market players such as PTC (US), IBM (US), Rockwell Automation (US), Autodesk, Inc. (US), Oracle (US), General Electric (US).

The break-up of the profiles of primary participants:

- By Company Type - Tier 1 - 40%, Tier 2 - 35%, and Tier 3 - 25%
- By Designation - C-level Executives - 48%, Directors - 33%, and Others - 19%
- By Region - North America - 35%, Europe - 18%, Asia Pacific - 40%, and Rest of the World - 7%

Major players in the digital thread market include The report profiles key players such as PTC (US), IBM (US), Siemens (Germany), Dassault Systemes (France), Rockwell Automation (US), Autodesk, Inc. (US), Oracle (US), AVEVA Group Limited (UK), SAP (Germany), General Electric (US), Accenture (Ireland), and others.

Research Coverage

The report segments the digital thread market by Of technology, module, deployment, application, vertical and Region. The report also comprehensively reviews drivers, restraints, opportunities, and challenges influencing market growth. The report also covers qualitative aspects in addition to the quantitative aspects of the market.

Reasons to buy the report:

The report will help the market leaders/new entrants with information on the closest approximate revenues for the overall digital thread market and related segments. This report will help stakeholders understand the competitive landscape and gain more insights to strengthen their position in the market and plan suitable go-to-market strategies. The report also helps stakeholders understand the market pulse and provides information on key market drivers, restraints, opportunities, and challenges.

The report provides insights on the following pointers:

- Analysis of critical drivers (Growing Demand for Real-Time Data Analytics, Growing emphasis on automation and digitization, Increasing demand for asset performance optimization and predictive maintenance.), restraints (Data Silos and Heterogeneity, Cyber security and Data Privacy Concern), opportunities (Building Digital Threads with Enterprise Integration Platform as a Service (PaaS), Advancements in Artificial Intelligence (AI) and Machine Learning), challenges (Complexity and Cost of Implementation, Unplanned downtime due to malfunctioning or failure of valves) influencing the growth of the digital thread market.
- Product Development/Innovation: Detailed insights on upcoming technologies, research and development activities, and new product launches in the digital thread market.
- Market Development: Comprehensive information about lucrative markets - the report analyses the digital thread market across

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various regions.

-□Market Diversification: Exhaustive information about new products, untapped geographies, recent developments, and investments in the digital thread market.

-□Competitive Assessment: such PTC (US), IBM (US), Siemens (Germany), Dassault Systemes (France), Rockwell Automation (US), Autodesk, Inc. (US), Oracle (US), AVEVA Group Limited (UK), SAP (Germany), General Electric (US), Accenture (Ireland) and others.

## Table of Contents:

1	INTRODUCTION	24
1.1	STUDY OBJECTIVES	24
1.2	MARKET DEFINITION	24
1.3	STUDY SCOPE	25
1.3.1	MARKETS COVERED AND REGIONAL SCOPE	25
1.3.2	INCLUSIONS AND EXCLUSIONS	26
1.3.3	YEARS CONSIDERED	27
1.4	CURRENCY CONSIDERED	27
1.5	LIMITATIONS	27
1.6	STAKEHOLDERS	28
2	RESEARCH METHODOLOGY	29
2.1	RESEARCH DATA	29
2.1.1	SECONDARY DATA	30
2.1.1.1	List of key secondary sources	30
2.1.1.2	Key data from secondary sources	30
2.1.2	PRIMARY DATA	31
2.1.2.1	List of key interview participants	31
2.1.2.2	Breakdown of primaries	31
2.1.2.3	Key data from primary sources	32
2.1.2.4	Key industry insights	33
2.1.3	SECONDARY AND PRIMARY RESEARCH	34
2.2	MARKET SIZE ESTIMATION	34
2.2.1	BOTTOM-UP APPROACH	35
2.2.1.1	Approach to estimate market size using bottom-up analysis	35
2.2.2	TOP-DOWN APPROACH	36
2.2.2.1	Approach to estimate market size using top-down analysis	36
2.3	DATA TRIANGULATION	38
2.4	RESEARCH ASSUMPTIONS	39
2.5	RISK ANALYSIS	39
2.6	RESEARCH LIMITATIONS	40
3	EXECUTIVE SUMMARY	41
4	PREMIUM INSIGHTS	46
4.1	ATTRACTIVE GROWTH OPPORTUNITIES FOR PLAYERS IN DIGITAL THREAD MARKET	46
4.2	DIGITAL THREAD MARKET, BY DEPLOYMENT	46
4.3	DIGITAL THREAD MARKET, BY MODULE	47
4.4	DIGITAL THREAD MARKET, BY APPLICATION	47
4.5	DIGITAL THREAD MARKET, BY TECHNOLOGY	48
4.6	DIGITAL THREAD MARKET, BY END-USE INDUSTRY	49
4.7	DIGITAL THREAD MARKET, BY REGION	50

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4.8	DIGITAL THREAD MARKET, BY COUNTRY	50
5	MARKET OVERVIEW	51
5.1	INTRODUCTION	51
5.2	MARKET DYNAMICS	51
5.2.1	DRIVERS	52
5.2.1.1	Growing demand for real-time data analytics	52
5.2.1.2	Rising emphasis on automation and digitization	52
5.2.1.3	Increasing demand for asset performance optimization and predictive maintenance	52
5.2.2	RESTRAINTS	53
5.2.2.1	Data silos and heterogeneity issues	53
5.2.2.2	Cyber security and data privacy concerns	53
5.2.3	OPPORTUNITIES	54
5.2.3.1	Building digital threads with enterprise iPaaS	54
5.2.3.2	Advancements in AI and ML	54
5.2.4	CHALLENGES	55
5.2.4.1	High cost of implementation	55
5.2.4.2	Lack of standardization	55
5.3	SUPPLY CHAIN ANALYSIS	56
5.4	ECOSYSTEM ANALYSIS	58
5.5	INVESTMENT AND FUNDING SCENARIO	59
5.6	PRICING ANALYSIS	60
5.6.1	AVERAGE SELLING PRICE TREND OF PLM OFFERED BY KEY PLAYERS	60
5.6.2	INDICATIVE PRICING TREND, BY TECHNOLOGY	61
5.7	TRENDS/DISRUPTIONS IMPACTING CUSTOMER BUSINESS	62
5.8	PORTER'S FIVE FORCES ANALYSIS	63
5.8.1	THREAT OF NEW ENTRANTS	64
5.8.2	THREAT OF SUBSTITUTES	64
5.8.3	BARGAINING POWER OF SUPPLIERS	64
5.8.4	BARGAINING POWER OF BUYERS	64
5.8.5	INTENSITY OF COMPETITIVE RIVALRY	65
5.9	KEY STAKEHOLDERS AND BUYING CRITERIA	65
5.9.1	KEY STAKEHOLDERS IN BUYING PROCESS	65
5.9.2	BUYING CRITERIA	66
5.10	CASE STUDY ANALYSIS	67
5.10.1	POLARIS LEVERAGED PTC'S WINDCHILL ENTERPRISE PLM SOLUTION THAT OPTIMIZED COSTS	67
5.10.2	CELLI GROUP IMPLEMENTED DIGITAL THREAD USING PTC PRODUCT SUITE THAT INTEGRATED AND SYNCHRONIZED DATA ACROSS PRODUCT LIFECYCLE	67
5.10.3	KIRLOSKAR COLLABORATED WITH PTC TO DEVELOP DIGITAL THREAD THAT IMPROVED AND EXPEDITED CUSTOMER SERVICE	68
5.11	TECHNOLOGY ANALYSIS	68
5.11.1	KEY TECHNOLOGIES	68
5.11.1.1	Industrial cybersecurity	68
5.11.2	COMPLEMENTARY TECHNOLOGIES	69
5.11.2.1	Blockchain	69
5.11.3	ADJACENT TECHNOLOGIES	69
5.11.3.1	AR and VR	69
5.12	TRADE ANALYSIS	69

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5.12.1	IMPORT DATA (HS CODE 851769)	70
5.12.2	EXPORT DATA (HS CODE 851769)	71
5.13	PATENT ANALYSIS	72
5.14	KEY CONFERENCES AND EVENTS, 2024-2025	75
5.15	REGULATORY LANDSCAPE	76
5.15.1	REGULATORY BODIES, GOVERNMENT AGENCIES, AND OTHER ORGANIZATIONS	76
5.15.2	STANDARDS	79
5.16	IMPACT OF AI/GENERATIVE AI ON DIGITAL THREAD MARKET	80
5.16.1	INTRODUCTION	80
5.16.2	CASE STUDY	82
5.16.3	FUTURE OF AI/GENERATIVE AI IN DIGITAL THREAD MARKET	83
6	DIGITAL THREAD MARKET, BY TECHNOLOGY	84
6.1	INTRODUCTION	85
6.2	PLM	87
6.2.1	RIISING SHIFT TOWARD CLOUD-BASED SOLUTIONS TO OFFER LUCRATIVE GROWTH OPPORTUNITIES	87
6.3	APM	88
6.3.1	INTEGRATION OF IOT TO OBTAIN REAL-TIME INSIGHTS TO BOOST DEMAND	88
6.4	CAD	90
6.4.1	INCREASING ADOPTION IN MANUFACTURING AND AEROSPACE INDUSTRIES TO DRIVE MARKET	90
6.5	CAM	91
6.5.1	GROWING ADOPTION OF CNC MACHINING TO ACCELERATE DEMAND	91
6.6	SLM	93
6.6.1	SURGING DEMAND FOR PERSONALIZED SERVICES TO DRIVE MARKET	93
6.7	ALM	94
6.7.1	INTEGRATION WITH DEVOPS TO AUTOMATE WORKFLOWS TO FUEL MARKET GROWTH	94
6.8	MRP	96
6.8.1	ADOPTION OF ADVANCED ANALYTICS AND AI TO ACCELERATE DEMAND	96
6.9	ERP	97
6.9.1	GROWING NEED TO REDUCE MANUAL EFFORTS TO BOOST DEMAND	97
6.10	MES	99
6.10.1	RIISING ADOPTION OF SMART MANUFACTURING TO DRIVE MARKET	99
6.11	EDGE COMPUTING	100
6.11.1	DECREASED LATENCY AND IMPROVED SECURITY TO SPUR DEMAND	100
6.12	INDUSTRIAL SENSORS	102
6.12.1	GROWING ADOPTION IN MANUFACTURING, ENERGY, HEALTHCARE INDUSTRIES TO FUEL MARKET GROWTH	102
6.13	SCADA	103
6.13.1	INCREASING NEED TO MONITOR COMPLEX SYSTEMS IN INDUSTRIAL PLANTS TO BOOST DEMAND	103
6.14	INDUSTRIAL COMMUNICATION	105
6.14.1	ASSISTANCE IN DECISION-MAKING AND PROCESS OPTIMIZATION TO DRIVE MARKET	105
7	DIGITAL THREAD MARKET, BY MODULE	107
7.1	INTRODUCTION	108
7.2	DATA COLLECTION	109
7.2.1	INCREASING DEMAND FOR UNIFIED AND REAL-TIME FLOW OF INFORMATION TO DRIVE MARKET	109
7.3	DATA MANAGEMENT & INTEGRATION	109
7.3.1	RIISING DEMAND FOR WELL-STRUCTURED DATA COLLECTION TO FUEL MARKET GROWTH	109
7.4	CONNECTIVITY & INTEROPERABILITY	109

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7.4.1	ABILITY TO OFFER SEAMLESS COMMUNICATION AND DATA EXCHANGE BETWEEN PLATFORMS AND DEVICES TO DRIVE MARKET	109
7.5	ANALYTICS & VISUALIZATION	110
7.5.1	ENHANCED DECISION-MAKING AND IMPROVED OPERATIONAL EFFICIENCY TO OFFER LUCRATIVE GROWTH OPPORTUNITIES	110
8	DIGITAL THREAD MARKET, BY DEPLOYMENT	111
8.1	INTRODUCTION	112
8.2	ON-PREMISES	113
8.2.1	PRESSING NEED TO SECURE DATA TO DRIVE MARKET	113
8.3	CLOUD-BASED	115
8.3.1	GROWING NEED TO REDUCE UPFRONT INVESTMENT IN IT INFRASTRUCTURE TO SPUR DEMAND	115
9	DIGITAL THREAD MARKET, BY APPLICATION	117
9.1	INTRODUCTION	118
9.2	DESIGN & ENGINEERING	119
9.2.1	REDUCED NEED FOR PHYSICAL PROTOTYPES TO BOOST DEMAND	119
	?	
9.3	MANUFACTURING	119
9.3.1	INCREASING DEMAND TO ADDRESS COMPLEXITIES OF MANUFACTURING PROCESSES TO FUEL MARKET GROWTH	119
9.4	DISTRIBUTION	120
9.4.1	ABILITY TO OFFER REAL-TIME PRODUCT TRACKING TO ACCELERATE DEMAND	120
9.5	CUSTOMER SUPPORT	120
9.5.1	GROWING FOCUS ON ENHANCING REAL-TIME PERFORMANCE TO BOOST DEMAND	120
9.6	MAINTENANCE & SERVICES	120
9.6.1	RISING EMPHASIS ON BOOSTING ASSET MANAGEMENT AND SERVICE OPERATIONS TO SPUR DEMAND	120
10	DIGITAL THREAD MARKET, BY END-USE INDUSTRY	121
10.1	INTRODUCTION	122
10.2	AUTOMOTIVE	124
10.2.1	ABILITY TO FACILITATE REAL-TIME COLLABORATION TO DRIVE MARKET	124
10.3	AEROSPACE	126
10.3.1	ADOPTION OF BIG DATA AND IOT TO OFFER LUCRATIVE GROWTH OPPORTUNITIES	126
10.4	ENERGY & POWER	129
10.4.1	INTEGRATION OF IOT, AI, AND PREDICTIVE ANALYTICS FOR ENHANCED ASSET MANAGEMENT TO FUEL MARKET GROWTH	129
10.5	PHARMACEUTICALS	131
10.5.1	IMPROVED DECISION-MAKING AND OPERATIONAL EFFICIENCY TO DRIVE MARKET	131
10.6	MEDICAL DEVICES	134
10.6.1	ENHANCED PATIENT CARE AND DEVICE PERFORMANCE TO FUEL MARKET GROWTH	134
10.7	OIL & GAS	136
10.7.1	RISING EMPHASIS ON DIGITAL TRANSFORMATION TO DRIVE MARKET	136
10.8	CONSUMER GOODS	139
10.8.1	INCREASING FOCUS ON OFFERING PERSONALIZED EXPERIENCES TO BOOST DEMAND	139
10.9	ELECTRONICS & SEMICONDUCTORS	141
10.9.1	GROWING DEMAND FOR ACCURATE PRODUCT DEVELOPMENT TO DRIVE MARKET	141
10.10	HEAVY MACHINERY	144
10.10.1	IMPROVED VISIBILITY AND TRACEABILITY TO FUEL MARKET GROWTH	144
10.11	CHEMICALS	146
10.11.1	REDUCED WASTE AND DOWNTIME TO SPUR DEMAND	146
10.12	FOOD & BEVERAGES	149
10.12.1	ADOPTION OF CLOUD-BASED MANAGEMENT PLATFORMS TO FUEL MARKET GROWTH	149

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10.13	OTHERS	151
11	DIGITAL THREAD MARKET, BY REGION	154
11.1	INTRODUCTION	155
11.2	NORTH AMERICA	156
11.2.1	MACROECONOMIC OUTLOOK FOR NORTH AMERICA	156
11.2.2	US	159
11.2.2.1	Growing adoption in aerospace and defense sectors to drive market	159
11.2.3	CANADA	160
11.2.3.1	Government-led initiatives to boost digitalization in manufacturing industry to spur demand	160
11.2.4	MEXICO	160
11.2.4.1	Rising automation in manufacturing sector to fuel market growth	160
11.3	EUROPE	161
11.3.1	MACROECONOMIC OUTLOOK FOR EUROPE	161
11.3.2	UK	164
11.3.2.1	Adoption of innovative manufacturing initiatives to accelerate demand	164
11.3.3	GERMANY	165
11.3.3.1	Thriving automotive and machinery sectors to spur demand	165
11.3.4	FRANCE	165
11.3.4.1	Rising emphasis on developing next-generation digital factories to offer lucrative growth opportunities	165
11.3.5	REST OF EUROPE	165
11.4	ASIA PACIFIC	166
11.4.1	MACROECONOMIC OUTLOOK FOR ASIA PACIFIC	166
11.4.2	CHINA	170
11.4.2.1	Increasing focus on smart manufacturing projects to boost demand	170
11.4.3	JAPAN	170
11.4.3.1	Growing emphasis on modernizing manufacturing infrastructure to drive market	170
11.4.4	SOUTH KOREA	171
11.4.4.1	Integration of digital technologies with intelligent manufacturing processes to fuel market growth	171
11.4.5	INDIA	171
11.4.5.1	Rising demand for real-time monitoring and reduced manufacturing costs to drive market	171
11.4.6	REST OF ASIA PACIFIC	171
11.5	ROW	172
11.5.1	MACROECONOMIC OUTLOOK FOR ROW	172
11.5.2	MIDDLE EAST	175
11.5.2.1	increasing partnerships among industry vendors and process licensors to boost demand	175
11.5.2.2	GCC countries	175
11.5.2.3	Rest of Middle East	175
	?	
11.5.3	AFRICA	176
11.5.3.1	Rising investments in industrial automation and digital transformation to offer lucrative growth opportunities	176
11.5.4	SOUTH AMERICA	176
11.5.4.1	Growing number of smart factories to fuel market growth	176
12	COMPETITIVE LANDSCAPE	177
12.1	OVERVIEW	177
12.2	KEY PLAYER STRATEGIES/RIGHT TO WIN, 2022-2024	177
12.3	REVENUE ANALYSIS, 2019-2023	178
12.4	MARKET SHARE ANALYSIS, 2023	179

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12.5	COMPANY VALUATION AND FINANCIAL METRICS	181
12.6	BRAND/PRODUCT COMPARISON	182
12.7	COMPANY EVALUATION MATRIX: KEY PLAYERS, 2023	182
12.7.1	STARS	182
12.7.2	EMERGING LEADERS	182
12.7.3	PERVASIVE PLAYERS	183
12.7.4	PARTICIPANTS	183
12.7.5	COMPANY FOOTPRINT: KEY PLAYERS, 2023	184
12.7.5.1	Company footprint	184
12.7.5.2	Deployment footprint	185
12.7.5.3	Technology footprint	186
12.7.5.4	End-use industry footprint	187
12.7.5.5	Region footprint	189
12.8	COMPANY EVALUATION MATRIX: STARTUPS/SMES, 2023	190
12.8.1	PROGRESSIVE COMPANIES	190
12.8.2	RESPONSIVE COMPANIES	190
12.8.3	DYNAMIC COMPANIES	190
12.8.4	STARTING BLOCKS	190
12.8.5	COMPETITIVE BENCHMARKING: STARTUPS/SMES, 2023	192
12.8.5.1	Detailed list of key startups/SMEs	192
12.8.5.2	Competitive benchmarking of key startups/SMEs	192
12.9	COMPETITIVE SCENARIO	193
12.9.1	PRODUCT LAUNCHES	193
12.9.2	DEALS	195
13	COMPANY PROFILES	200
13.1	KEY PLAYERS	200
13.1.1	SIEMENS	200
13.1.1.1	Business overview	200
13.1.1.2	Products/Solutions/Services offered	201
13.1.1.3	Recent developments	202
13.1.1.3.1	Product launches	202
13.1.1.3.2	Deals	202
13.1.1.4	MnM view	203
13.1.1.4.1	Key strengths/Right to win	203
13.1.1.4.2	Strategic choices	203
13.1.1.4.3	Weaknesses/Competitive threats	204
13.1.2	PTC	205
13.1.2.1	Business overview	205
13.1.2.2	Products/Solutions/Services offered	207
13.1.2.3	Recent developments	208
13.1.2.3.1	Deals	208
13.1.2.4	MnM view	209
13.1.2.4.1	Key strengths/Right to win	209
13.1.2.4.2	Strategic choices	209
13.1.2.4.3	Weaknesses/Competitive threats	209
13.1.3	DASSAULT SYSTEMES	210
13.1.3.1	Business overview	210

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13.1.3.2	Products/Solutions/Services offered	211
13.1.3.3	Recent developments	212
13.1.3.3.1	Deals	212
13.1.3.4	MnM view	213
13.1.3.4.1	Key strengths/Right to win	213
13.1.3.4.2	Strategic choices	213
13.1.3.4.3	Weaknesses/Competitive threats	214
13.1.4	IBM	215
13.1.4.1	Business overview	215
13.1.4.2	Products/Solutions/Services offered	216
13.1.4.3	Recent developments	217
13.1.4.3.1	Deals	217
13.1.4.4	MnM view	218
13.1.4.4.1	Key strengths/Right to win	218
13.1.4.4.2	Strategic choices	218
13.1.4.4.3	Weaknesses/Competitive threats	218
13.1.5	SAP	219
13.1.5.1	Business overview	219
13.1.5.2	Products/Solutions/Services offered	220
13.1.5.3	Recent developments	221
13.1.5.3.1	Product launches	221
13.1.5.3.2	Deals	221
13.1.5.4	MnM view	221
13.1.5.4.1	Key strengths/Right to win	221
13.1.5.4.2	Strategic choices	221
13.1.5.4.3	Weaknesses/Competitive threats	221
13.1.6	ROCKWELL AUTOMATION	222
13.1.6.1	Business overview	222
13.1.6.2	Products/Solutions/Services offered	223
13.1.6.3	Recent developments	224
13.1.6.3.1	Deals	224
13.1.7	AUTODESK INC.	225
13.1.7.1	Business overview	225
13.1.7.2	Products/Solutions/Services offered	226
13.1.7.3	Recent developments	227
13.1.7.3.1	Product launches	227
13.1.7.3.2	Deals	227
13.1.8	ORACLE	228
13.1.8.1	Business overview	228
13.1.8.2	Products/Solutions/Services offered	229
13.1.8.3	Recent developments	230
13.1.8.3.1	Product launches	230
13.1.9	AVEVA GROUP LIMITED	231
13.1.9.1	Business overview	231
13.1.9.2	Products/Solutions/Services offered	231
13.1.9.3	Recent developments	232
13.1.9.3.1	Product launches	232

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13.1.10	GENERAL ELECTRIC COMPANY	233
13.1.10.1	Business overview	233
13.1.10.2	Products/Solutions/Services offered	234
13.1.10.3	Recent developments	235
13.1.10.3.1	Deals	235
13.2	OTHER PLAYERS	236
13.2.1	ACCENTURE	236
13.2.2	ANSYS, INC.	237
13.2.3	TATA CONSULTANCY SERVICES LIMITED	238
13.2.4	HEXAGON AB	239
13.2.5	COGNIZANT	240
13.2.6	DXC TECHNOLOGY COMPANY	241
13.2.7	BOSCH GLOBAL SOFTWARE TECHNOLOGIES PRIVATE LIMITED	242
13.2.8	BENTLEY SYSTEMES, INCORPORATED	243
13.2.9	MATTERPORT INC.	244
13.2.10	HITACHI VANTARA LLC	245
13.2.11	PROSTEP INC	246
13.2.12	ARAS	247
13.2.13	ALTAIR ENGINEERING INC.	248
13.2.14	RAZORLEAF	249
13.2.15	CAPGEMINI	250
14	ADJACENT MARKET	251
14.1	DIGITAL TWIN MARKET, BY ENTERPRISE	251
14.1.1	INTRODUCTION	251
14.1.2	LARGE ENTERPRISES	253
14.1.2.1	Adoption of blockchain technology in healthcare and oil & gas industries to spur demand	253
14.1.3	SMALL & MEDIUM ENTERPRISES	255
14.1.3.1	Improved inventory management and quick access to real-time data to fuel market growth	255
15	APPENDIX	257
15.1	INSIGHTS FROM INDUSTRY EXPERTS	257
15.2	DISCUSSION GUIDE	258
15.3	KNOWLEDGESTORE: MARKETSANDMARKETS' SUBSCRIPTION PORTAL	261
15.4	CUSTOMIZATION OPTIONS	263
15.5	RELATED REPORTS	263
15.6	AUTHOR DETAILS	264

## Digital Thread Market by Technology (PLM, SLM, CAD, MES, IoT, ERP, edge computing, Digital Twin, ALM, SCADA), Module (Data collection, Data management & Integration), Deployment, Application, Vertical, Region - Global Forecast to 2030

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