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IoT in Manufacturing Market – Global Industry Size, Share, Trends, Opportunity, and Forecast, Segmented By Component (Solutions, Platforms, Services), By Application Area (Predictive Maintenance, Business Process Optimization, Asset Tracking & Management, Workforce Management, Emergency & Incident Management, Logistics & Supply Chain Management, Inventory Management, Others), By End User (Energy & Utilities, Automotive, Food & Beverages, Aerospace & Defence, Electronics & Communication, Chemicals & Materials, Others), By Region & Competition, 2021-2031F

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Abstracts

The Global IoT in Manufacturing Market is anticipated to expand from USD 279.11 billion in 2025 to USD 743.19 billion by 2031, reflecting a 17.73% CAGR. This market focuses on integrating networked sensors and software into industrial machinery to gather and evaluate production data, allowing physical equipment to communicate and streamline workflows independently. Key factors driving this expansion are the need for enhanced operational efficiency and the demand for predictive maintenance to minimize equipment downtime. These core growth drivers remain completely separate from evolving industry developments such as virtual reality integration.

In 2025, the GSMA reported that global smart manufacturing Internet of Things connections hit 1.5 billion. However, even with this widespread technological uptake,

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continuous market growth encounters substantial obstacles due to cybersecurity vulnerabilities. Linking a multitude of factory devices inherently broadens the attack surface for possible data breaches. Safeguarding these vast networks necessitates specific expertise, presenting a major data protection challenge that may hinder wider market adoption.

Market Driver

Merging Artificial Intelligence with Edge Computing in Industrial IoT acts as a major catalyst for market growth by moving data processing right to the factory floor. This structural shift empowers connected sensors to evaluate production metrics locally, which cuts down network latency and allows for independent decision-making without overwhelming bandwidth. Consequently, raw industrial information is turned into predictive insights that streamline workflows. As noted in Protolabs' April 2026 'Innovation in Manufacturing 2026' report, roughly 72 percent of manufacturers incorporating machine learning into their operations have seen lower costs and enhanced efficiency. Analyzing data at the edge ensures physical equipment can effortlessly adjust to changing production needs.

Progress in Industrial Connectivity and 5G Technology provides the essential communication foundation needed to scale these automated systems. Deploying high-speed cellular networks guarantees that thousands of scattered sensors can interact simultaneously without losing signal quality. According to Mobile World Live's April 2026 'Intelligence Brief', worldwide 5G connections exceeded 2.7 billion by late 2025. This widespread growth of wireless infrastructure enables manufacturers to swap inflexible wired systems for adaptable configurations. Additionally, a 2026 Network World report highlighted that the LoRa Alliance achieved 125 million active devices globally, illustrating the massive scale of current industrial network development.

Market Challenge

Cybersecurity vulnerabilities and the threat of data breaches severely limit the Global Internet of Things in Manufacturing Market. Linking numerous physical machines to digital networks inherently widens the attack surface for malicious actors, with every connected sensor acting as a possible gateway for unauthorized entry. As factories adopt these extensive networks, they inadvertently leave confidential production data and operational technology vulnerable to outside threats. The potential financial and operational risks associated with such network breaches prompt many businesses to postpone their implementation strategies.

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The tangible reality of security breaches breeds reluctance among decision-makers when considering widespread deployment. In 2025, the World Economic Forum reported that 77 percent of surveyed businesses experienced a successful cyberattack that exposed their confidential data or disrupted their operational technology. These interruptions lead to expensive operational downtime and intellectual property theft, completely counteracting the efficiency objectives of connected factories. Ultimately, the constant danger of operational paralysis forms a significant obstacle, preventing the overall market from achieving its projected capacity.

Market Trends

Integrating Digital Twins for Factory Simulation and Optimization is a key trend shaping the Global Internet of Things in Manufacturing Market. A digital twin creates a virtual duplicate of a physical production plant by utilizing uninterrupted sensor data. Manufacturers leverage these digital models to trial adjustments and pinpoint bottlenecks without interfering with actual operations. This capability permits facility managers to digitally confirm workflow improvements prior to real-world implementation. An April 2025 report by Process Excellence Network, titled 'Digital twins in manufacturing', found that 65 percent of companies utilizing digital twin technology experienced decreases in both downtime and operational expenses.

The rapid convergence of Information Technology and Operational Technology is another significant trend transforming industrial networks. This integration merges corporate data systems with the controls of physical machinery on the shop floor. Connecting these traditionally distinct domains allows for seamless communication between business enterprise software and manufacturing hardware. Creating a unified architecture enhances data transparency and promotes swift decision-making throughout operations. However, attaining total integration is still a work in progress; according to a May 2025 CIO article titled 'How IT and OT are merging Opportunities and tips', only 13 percent of surveyed companies had completely merged their information technology and operational technology systems.

Key Market Players

Cisco Systems Inc.

General Electric Company

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Intel Corporation

IBM Corporation

Verizon Communication Inc.

AT&T Inc.

Qualcomm Technologies, Inc.

Siemens AG

Microsoft Corporation

SAP SE

Report Scope

In this report, the Global IoT in Manufacturing Market has been segmented into the following categories, in addition to the industry trends which have also been detailed below:

IoT in Manufacturing Market, By Component

Solutions

Platforms

Services

IoT in Manufacturing Market, By Application Area

Predictive Maintenance

Business Process Optimization

Asset Tracking & Management

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Germany

Spain

Asia Pacific

China

India

Japan

Australia

South Korea

South America

Brazil

Argentina

Colombia

Middle East & Africa

South Africa

Saudi Arabia

UAE

Competitive Landscape

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Company Profiles: Detailed analysis of the major companies present in the Global IoT in Manufacturing Market.

Available Customizations:

Global IoT in Manufacturing Market report with the given market data, TechSci Research offers customizations according to a company's specific needs. The following customization options are available for the report:

Company Information

Detailed analysis and profiling of additional market players (up to five).

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