

Manufacturing Sector ICT Market - Global Industry Size, Share, Trends, Opportunity, and Forecast, Segmented By Component (Solution, Services), By Application (Campaign Management, Email Marketing, Lead Management, Social Media Marketing, Others), By Deployment Type (On-Premises, Cloud), By Region & Competition, 2021-2031F

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Abstracts

The Global Manufacturing Sector ICT Market is projected to experience significant growth, expanding from USD 543.70 Billion in 2025 to USD 975.34 Billion by 2031, reflecting a CAGR of 10.23%. This market involves the implementation of comprehensive hardware, software, and telecommunications infrastructure aimed at digitizing, automating, and overseeing industrial production workflows. The primary force driving this market is the necessity for operational efficiency, pushing organizations to reduce downtime and improve resource management through detailed, real-time data analysis. Furthermore, the rising need for supply chain transparency and predictive maintenance is increasing capital investment in robust connectivity solutions and industrial Internet of Things platforms.

According to the National Association of Manufacturers, 76% of manufacturers in 2025 expected their facilities to reach smart or somewhat smart status within two years. Despite this anticipated growth, the market faces a major obstacle in the form of integrating modern digital tools with deep-rooted legacy systems. This complexity often leads to excessive implementation costs and technical interoperability challenges for established enterprises, thereby hindering broader market expansion.

Market Driver

The widespread adoption of Industry 4.0 and Smart Factory initiatives is driving manufacturers to shift from siloed legacy systems to fully connected digital ecosystems, fundamentally reshaping the ICT market. This transition requires advanced hardware and software capable of merging Information Technology with Operational Technology, as integrated platforms for unifying data streams become essential for competitiveness. A key indicator of this shift is the April 2024 'State of Smart Manufacturing Report' by Rockwell Automation, which notes that 95% of manufacturers are using or evaluating smart technology. However, a significant gap remains in operational transparency; Zebra Technologies reported in 2024 that only 16% of manufacturing leaders have real-time work-in-progress monitoring, signaling a strong market need for solutions that offer granular asset visibility.

The integration of Artificial Intelligence and Machine Learning algorithms represents a second transformative driver, pushing the sector from basic automation to cognitive industrial operations. This trend necessitates high-performance computing infrastructure and edge devices to process complex algorithms locally, enabling predictive maintenance and dynamic process optimization. According to a July 2024 Honeywell study, 94% of industrial executives intend to increase their AI usage, acknowledging that algorithmic decision-making is vital for future resilience. This rapid increase in AI adoption compels ICT vendors to build secure, scalable architectures capable of handling the computational demands of modern industrial machine learning workloads.

Market Challenge

A major impediment to the growth of the Global Manufacturing Sector ICT Market is the difficulty of integrating modern digital tools with established legacy systems. Many manufacturing enterprises rely on long-standing infrastructure that lacks the flexibility to interface smoothly with contemporary cloud-based or IoT platforms. This technical interoperability gap forces companies to bear high customization costs to bridge data silos, significantly increasing the total cost of ownership for new technology deployments. As a result, decision-makers are often reluctant to approve essential digital transformation projects.

This financial pressure heavily influences investment behavior across the industry. Data from the National Association of Manufacturers in 2024 indicated that nearly 40% of manufacturers reduced hiring or investment due to rising costs linked to the expiration of tax incentives for capital expenditures and R&D. When faced with such capital constraints, the expensive and technically complex task of retrofitting legacy systems

becomes difficult to justify financially. This hesitation directly lowers the immediate demand for advanced connectivity and analytics solutions, thereby slowing the overall momentum of the sector's ICT market expansion.

Market Trends

The widespread adoption of Private 5G Networks in Smart Factories is setting a new benchmark for industrial connectivity, offering the ultra-low latency and reliability essential for mission-critical tasks. Unlike legacy wireless options, these dedicated networks allow for the seamless coordination of autonomous mobile robots and dense sensor environments without the interference issues common to public spectrums. This infrastructure upgrade is proving to be a highly beneficial investment; according to Nokia's '2024 Industrial Digitalization Report' released in June 2024, 93% of respondents saw a return on investment within 12 months of deploying private wireless solutions, highlighting the rapid value generation of this technology.

Simultaneously, the focus on Sustainable Manufacturing through Green ICT initiatives is transforming resource management by embedding environmental accountability into digital platforms. Manufacturers are increasingly utilizing carbon tracking tools and energy management software to meet strict regulations and net-zero goals, treating energy consumption as a variable to be digitized and optimized. This approach aligns ecological compliance with operational metrics. Reflecting this shift, the April 2024 Rockwell Automation report noted that 98% of manufacturers have established a sustainability policy, indicating a near-universal mandate to integrate green technologies into production ecosystems.

Key Market Players

- Ericsson AB

- HP Inc.

- Cisco Systems Inc.

- Samsung Electronics Co., Ltd.

- Intel Corporation

- NXP Semiconductors N.V

- Microsoft Corporation

- Nokia Corporation

- Sony Corporation

- Qualcomm Technologies Inc

Report Scope

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

- Manufacturing Sector ICT Market, By Component

- Solution

- Services

- Manufacturing Sector ICT Market, By Application

- Campaign Management

- Email Marketing

- Lead Management

- Social Media Marketing

- Others

- Manufacturing Sector ICT Market, By Deployment Type

- On-Premises

- Cloud

%li%Manufacturing Sector ICT Market, By Region

%li%%li%North America

%li%%li%%li%United States

%li%%li%%li%Canada

%li%%li%%li%Mexico

%li%%li%Europe

%li%%li%%li%France

%li%%li%%li%United Kingdom

%li%%li%%li%Italy

%li%%li%%li%Germany

%li%%li%%li%Spain

%li%%li%Asia Pacific

%li%%li%%li%China

%li%%li%%li%India

%li%%li%%li%Japan

%li%%li%%li%Australia

%li%%li%%li%South Korea

%li%%li%South America

%li%%li%%li%Brazil

%li%%li%%li%Argentina

- Colombia

- Middle East & Africa

- South Africa

- Saudi Arabia

- UAE

Competitive Landscape

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

Available Customizations:

Global Manufacturing Sector ICT 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).

Contents

1. PRODUCT OVERVIEW

- 1.1. Market Definition
- 1.2. Scope of the Market
 - 1.2.1. Markets Covered
 - 1.2.2. Years Considered for Study
 - 1.2.3. Key Market Segmentations

2. RESEARCH METHODOLOGY

- 2.1. Objective of the Study
- 2.2. Baseline Methodology
- 2.3. Key Industry Partners
- 2.4. Major Association and Secondary Sources
- 2.5. Forecasting Methodology
- 2.6. Data Triangulation & Validation
- 2.7. Assumptions and Limitations

3. EXECUTIVE SUMMARY

- 3.1. Overview of the Market
- 3.2. Overview of Key Market Segmentations
- 3.3. Overview of Key Market Players
- 3.4. Overview of Key Regions/Countries
- 3.5. Overview of Market Drivers, Challenges, Trends

4. VOICE OF CUSTOMER

5. GLOBAL MANUFACTURING SECTOR ICT MARKET OUTLOOK

- 5.1. Market Size & Forecast
 - 5.1.1. By Value
- 5.2. Market Share & Forecast
 - 5.2.1. By Component (Solution, Services)
 - 5.2.2. By Application (Campaign Management, Email Marketing, Lead Management, Social Media Marketing, Others)
 - 5.2.3. By Deployment Type (On-Premises, Cloud)

- 5.2.4. By Region
- 5.2.5. By Company (2025)
- 5.3. Market Map

6. NORTH AMERICA MANUFACTURING SECTOR ICT MARKET OUTLOOK

- 6.1. Market Size & Forecast
 - 6.1.1. By Value
- 6.2. Market Share & Forecast
 - 6.2.1. By Component
 - 6.2.2. By Application
 - 6.2.3. By Deployment Type
 - 6.2.4. By Country
- 6.3. North America: Country Analysis
 - 6.3.1. United States Manufacturing Sector ICT Market Outlook
 - 6.3.1.1. Market Size & Forecast
 - 6.3.1.1.1. By Value
 - 6.3.1.2. Market Share & Forecast
 - 6.3.1.2.1. By Component
 - 6.3.1.2.2. By Application
 - 6.3.1.2.3. By Deployment Type
 - 6.3.2. Canada Manufacturing Sector ICT Market Outlook
 - 6.3.2.1. Market Size & Forecast
 - 6.3.2.1.1. By Value
 - 6.3.2.2. Market Share & Forecast
 - 6.3.2.2.1. By Component
 - 6.3.2.2.2. By Application
 - 6.3.2.2.3. By Deployment Type
 - 6.3.3. Mexico Manufacturing Sector ICT Market Outlook
 - 6.3.3.1. Market Size & Forecast
 - 6.3.3.1.1. By Value
 - 6.3.3.2. Market Share & Forecast
 - 6.3.3.2.1. By Component
 - 6.3.3.2.2. By Application
 - 6.3.3.2.3. By Deployment Type

7. EUROPE MANUFACTURING SECTOR ICT MARKET OUTLOOK

- 7.1. Market Size & Forecast

- 7.1.1. By Value
- 7.2. Market Share & Forecast
 - 7.2.1. By Component
 - 7.2.2. By Application
 - 7.2.3. By Deployment Type
 - 7.2.4. By Country
- 7.3. Europe: Country Analysis
 - 7.3.1. Germany Manufacturing Sector ICT Market Outlook
 - 7.3.1.1. Market Size & Forecast
 - 7.3.1.1.1. By Value
 - 7.3.1.2. Market Share & Forecast
 - 7.3.1.2.1. By Component
 - 7.3.1.2.2. By Application
 - 7.3.1.2.3. By Deployment Type
 - 7.3.2. France Manufacturing Sector ICT Market Outlook
 - 7.3.2.1. Market Size & Forecast
 - 7.3.2.1.1. By Value
 - 7.3.2.2. Market Share & Forecast
 - 7.3.2.2.1. By Component
 - 7.3.2.2.2. By Application
 - 7.3.2.2.3. By Deployment Type
 - 7.3.3. United Kingdom Manufacturing Sector ICT Market Outlook
 - 7.3.3.1. Market Size & Forecast
 - 7.3.3.1.1. By Value
 - 7.3.3.2. Market Share & Forecast
 - 7.3.3.2.1. By Component
 - 7.3.3.2.2. By Application
 - 7.3.3.2.3. By Deployment Type
 - 7.3.4. Italy Manufacturing Sector ICT Market Outlook
 - 7.3.4.1. Market Size & Forecast
 - 7.3.4.1.1. By Value
 - 7.3.4.2. Market Share & Forecast
 - 7.3.4.2.1. By Component
 - 7.3.4.2.2. By Application
 - 7.3.4.2.3. By Deployment Type
 - 7.3.5. Spain Manufacturing Sector ICT Market Outlook
 - 7.3.5.1. Market Size & Forecast
 - 7.3.5.1.1. By Value
 - 7.3.5.2. Market Share & Forecast

- 7.3.5.2.1. By Component
- 7.3.5.2.2. By Application
- 7.3.5.2.3. By Deployment Type

8. ASIA PACIFIC MANUFACTURING SECTOR ICT MARKET OUTLOOK

- 8.1. Market Size & Forecast
 - 8.1.1. By Value
- 8.2. Market Share & Forecast
 - 8.2.1. By Component
 - 8.2.2. By Application
 - 8.2.3. By Deployment Type
 - 8.2.4. By Country
- 8.3. Asia Pacific: Country Analysis
 - 8.3.1. China Manufacturing Sector ICT Market Outlook
 - 8.3.1.1. Market Size & Forecast
 - 8.3.1.1.1. By Value
 - 8.3.1.2. Market Share & Forecast
 - 8.3.1.2.1. By Component
 - 8.3.1.2.2. By Application
 - 8.3.1.2.3. By Deployment Type
 - 8.3.2. India Manufacturing Sector ICT Market Outlook
 - 8.3.2.1. Market Size & Forecast
 - 8.3.2.1.1. By Value
 - 8.3.2.2. Market Share & Forecast
 - 8.3.2.2.1. By Component
 - 8.3.2.2.2. By Application
 - 8.3.2.2.3. By Deployment Type
 - 8.3.3. Japan Manufacturing Sector ICT Market Outlook
 - 8.3.3.1. Market Size & Forecast
 - 8.3.3.1.1. By Value
 - 8.3.3.2. Market Share & Forecast
 - 8.3.3.2.1. By Component
 - 8.3.3.2.2. By Application
 - 8.3.3.2.3. By Deployment Type
 - 8.3.4. South Korea Manufacturing Sector ICT Market Outlook
 - 8.3.4.1. Market Size & Forecast
 - 8.3.4.1.1. By Value
 - 8.3.4.2. Market Share & Forecast

- 8.3.4.2.1. By Component
- 8.3.4.2.2. By Application
- 8.3.4.2.3. By Deployment Type
- 8.3.5. Australia Manufacturing Sector ICT Market Outlook
 - 8.3.5.1. Market Size & Forecast
 - 8.3.5.1.1. By Value
 - 8.3.5.2. Market Share & Forecast
 - 8.3.5.2.1. By Component
 - 8.3.5.2.2. By Application
 - 8.3.5.2.3. By Deployment Type

9. MIDDLE EAST & AFRICA MANUFACTURING SECTOR ICT MARKET OUTLOOK

- 9.1. Market Size & Forecast
 - 9.1.1. By Value
- 9.2. Market Share & Forecast
 - 9.2.1. By Component
 - 9.2.2. By Application
 - 9.2.3. By Deployment Type
 - 9.2.4. By Country
- 9.3. Middle East & Africa: Country Analysis
 - 9.3.1. Saudi Arabia Manufacturing Sector ICT Market Outlook
 - 9.3.1.1. Market Size & Forecast
 - 9.3.1.1.1. By Value
 - 9.3.1.2. Market Share & Forecast
 - 9.3.1.2.1. By Component
 - 9.3.1.2.2. By Application
 - 9.3.1.2.3. By Deployment Type
 - 9.3.2. UAE Manufacturing Sector ICT Market Outlook
 - 9.3.2.1. Market Size & Forecast
 - 9.3.2.1.1. By Value
 - 9.3.2.2. Market Share & Forecast
 - 9.3.2.2.1. By Component
 - 9.3.2.2.2. By Application
 - 9.3.2.2.3. By Deployment Type
 - 9.3.3. South Africa Manufacturing Sector ICT Market Outlook
 - 9.3.3.1. Market Size & Forecast
 - 9.3.3.1.1. By Value
 - 9.3.3.2. Market Share & Forecast

- 9.3.3.2.1. By Component
- 9.3.3.2.2. By Application
- 9.3.3.2.3. By Deployment Type

10. SOUTH AMERICA MANUFACTURING SECTOR ICT MARKET OUTLOOK

- 10.1. Market Size & Forecast
 - 10.1.1. By Value
- 10.2. Market Share & Forecast
 - 10.2.1. By Component
 - 10.2.2. By Application
 - 10.2.3. By Deployment Type
 - 10.2.4. By Country
- 10.3. South America: Country Analysis
 - 10.3.1. Brazil Manufacturing Sector ICT Market Outlook
 - 10.3.1.1. Market Size & Forecast
 - 10.3.1.1.1. By Value
 - 10.3.1.2. Market Share & Forecast
 - 10.3.1.2.1. By Component
 - 10.3.1.2.2. By Application
 - 10.3.1.2.3. By Deployment Type
 - 10.3.2. Colombia Manufacturing Sector ICT Market Outlook
 - 10.3.2.1. Market Size & Forecast
 - 10.3.2.1.1. By Value
 - 10.3.2.2. Market Share & Forecast
 - 10.3.2.2.1. By Component
 - 10.3.2.2.2. By Application
 - 10.3.2.2.3. By Deployment Type
 - 10.3.3. Argentina Manufacturing Sector ICT Market Outlook
 - 10.3.3.1. Market Size & Forecast
 - 10.3.3.1.1. By Value
 - 10.3.3.2. Market Share & Forecast
 - 10.3.3.2.1. By Component
 - 10.3.3.2.2. By Application
 - 10.3.3.2.3. By Deployment Type

11. MARKET DYNAMICS

- 11.1. Drivers

11.2. Challenges

12. MARKET TRENDS & DEVELOPMENTS

12.1. Merger & Acquisition (If Any)

12.2. Product Launches (If Any)

12.3. Recent Developments

13. GLOBAL MANUFACTURING SECTOR ICT MARKET: SWOT ANALYSIS

14. PORTER'S FIVE FORCES ANALYSIS

14.1. Competition in the Industry

14.2. Potential of New Entrants

14.3. Power of Suppliers

14.4. Power of Customers

14.5. Threat of Substitute Products

15. COMPETITIVE LANDSCAPE

15.1. Ericsson AB

15.1.1. Business Overview

15.1.2. Products & Services

15.1.3. Recent Developments

15.1.4. Key Personnel

15.1.5. SWOT Analysis

15.2. HP Inc.

15.3. Cisco Systems Inc.

15.4. Samsung Electronics Co., Ltd.

15.5. Intel Corporation

15.6. NXP Semiconductors N.V

15.7. Microsoft Corporation

15.8. Nokia Corporation

15.9. Sony Corporation

15.10. Qualcomm Technologies Inc

16. STRATEGIC RECOMMENDATIONS

17. ABOUT US & DISCLAIMER

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