

# **Industrial Data Acquisitions System Market Outlook 2025-2034: Market Share, and Growth Analysis By Type (External Chassis And Modules, Plug-In Analog I/O boards, Software), By Channel (Less Than 32, 32-128, Greater Than 128), By End-User Vertical**

<https://marketpublishers.com/r/IF252010945FEN.html>

Date: October 2025

Pages: 160

Price: US\$ 3,950.00 (Single User License)

ID: IF252010945FEN

## **Abstracts**

The Industrial Data Acquisitions System Market is valued at USD 37.5 billion in 2025 and is projected to grow at a CAGR of 5.3% to reach USD 59.4 billion by 2034. The industrial data acquisition system market serves as a backbone for monitoring and recording critical operational parameters across sectors like manufacturing, energy, oil and gas, and transportation. These systems collect real-time data from sensors, machinery, and control systems to analyze performance, detect faults, and improve process efficiency. With Industry 4.0 gaining momentum, data acquisition systems are becoming essential in enabling predictive maintenance, quality assurance, and production optimization. The shift toward smart manufacturing, increasing deployment of IoT devices, and rising demand for remote monitoring are fueling the adoption of high-speed, high-accuracy data acquisition platforms capable of handling complex industrial workflows. The market for industrial data acquisition systems experienced significant expansion, driven by increased automation and digital transformation efforts across industries. Edge-enabled acquisition systems with built-in AI capabilities gained popularity due to their ability to process data locally and provide actionable insights in real time. Cloud-based platforms offering seamless data integration and cross-facility visibility saw strong uptake, particularly in energy and manufacturing sectors. Key players focused on expanding modular and scalable architectures, allowing easy integration with legacy systems. Cybersecurity-enhanced data acquisition tools also gained momentum, as concerns about data integrity and system vulnerabilities grew in interconnected industrial environments. The industrial data acquisition system market is expected to advance through the integration of 5G connectivity, AI-based anomaly

detection, and blockchain for secure data traceability. Systems will become increasingly autonomous, capable of self-calibration and remote configuration, supporting minimal human intervention. Predictive analytics and digital twin simulations powered by real-time data inputs will become standard across mission-critical industries. Moreover, green data acquisition systems with low power consumption and eco-friendly design will gain traction as sustainability initiatives intensify. The market will also see a rising demand in emerging economies due to industrial expansion and the need for process digitization.

### Key Insights Industrial Data Acquisitions System Market

Edge-based data acquisition systems are transforming local data processing, improving latency, and enabling immediate operational insights.

Modular and plug-and-play systems are gaining traction for their easy scalability and integration with diverse industrial protocols.

AI-powered analytics are being embedded within data acquisition units to enable on-device anomaly detection and performance forecasting.

Cloud-native platforms are facilitating centralized monitoring and cross-site data synchronization for global enterprises.

Cybersecurity-hardened acquisition systems are being adopted to prevent data tampering and ensure secure communication.

Increased need for real-time data and actionable insights in manufacturing and process industries is fueling market growth.

Expansion of smart factories and digital twins requires high-speed, high-accuracy data acquisition platforms for simulation and control.

Rising deployment of industrial IoT devices is boosting demand for robust and interoperable data collection systems.

Growing emphasis on predictive maintenance and energy optimization is driving investments in advanced acquisition solutions.

Integration with legacy equipment and outdated infrastructure can complicate

the deployment of modern data acquisition systems.

High upfront investment and data security concerns remain key barriers, especially in cost-sensitive and highly regulated industries.

## Industrial Data Acquisitions System Market Segmentation

### By Type

External Chassis And Modules

Plug-In Analog I/O boards

Software

### By Channel

Less Than 32

32-128

Greater Than 128

### By End-User Vertical

Water And Waste Treatment

Power And Energy

Automotive

Education And Research

Aerospace And Defense

Paper And Pulp

Chemicals

Other End-User Verticals

### Key Companies Analysed

Siemens AG

Schneider Electric SE

Honeywell International Inc.

ABB Ltd.

TE Connectivity Ltd.

Emerson Electric Co.

Rockwell Automation Inc.

Omron Corporation

Fluke Corporation

Keysight Technologies Inc.

Endress+Hauser Group

Yokogawa Electric Corporation

Phoenix Contact GmbH & Co. KG

Advantech Co. Ltd.

National Instruments Corporation

Weidmüller Interface GmbH & Co. KG

Digi International Inc.

Dwyer Instruments Inc.

Omega Engineering Inc.

Beckhoff Automation GmbH & Co. KG

Campbell Scientific Inc.

Dataforth Corporation

DEWETRON GmbH

HBM Inc.

Lufft GmbH

Moxa Inc.

## Industrial Data Acquisitions System Market Analytics

The report employs rigorous tools, including Porter's Five Forces, value chain mapping, and scenario-based modeling, to assess supply–demand dynamics. Cross-sector influences from parent, derived, and substitute markets are evaluated to identify risks and opportunities. Trade and pricing analytics provide an up-to-date view of international flows, including leading exporters, importers, and regional price trends.

Macroeconomic indicators, policy frameworks such as carbon pricing and energy security strategies, and evolving consumer behavior are considered in forecasting scenarios. Recent deal flows, partnerships, and technology innovations are incorporated to assess their impact on future market performance.

## Industrial Data Acquisitions System Market Competitive Intelligence

The competitive landscape is mapped through OG Analysis' proprietary frameworks, profiling leading companies with details on business models, product portfolios, financial

performance, and strategic initiatives. Key developments such as mergers & acquisitions, technology collaborations, investment inflows, and regional expansions are analyzed for their competitive impact. The report also identifies emerging players and innovative startups contributing to market disruption.

Regional insights highlight the most promising investment destinations, regulatory landscapes, and evolving partnerships across energy and industrial corridors.

## Countries Covered

North America — Industrial Data Acquisitions System market data and outlook to 2034

United States

Canada

Mexico

Europe — Industrial Data Acquisitions System market data and outlook to 2034

Germany

United Kingdom

France

Italy

Spain

BeNeLux

Russia

Sweden

Asia-Pacific — Industrial Data Acquisitions System market data and outlook to 2034

China

Japan

India

South Korea

Australia

Indonesia

Malaysia

Vietnam

Middle East and Africa — Industrial Data Acquisitions System market data and outlook to 2034

Saudi Arabia

South Africa

Iran

UAE

Egypt

South and Central America — Industrial Data Acquisitions System market data and outlook to 2034

Brazil

Argentina

Chile

## Peru

*\* We can include data and analysis of additional countries on demand.*

### Research Methodology

This study combines primary inputs from industry experts across the Industrial Data Acquisitions System value chain with secondary data from associations, government publications, trade databases, and company disclosures. Proprietary modeling techniques, including data triangulation, statistical correlation, and scenario planning, are applied to deliver reliable market sizing and forecasting.

### Key Questions Addressed

What is the current and forecast market size of the Industrial Data Acquisitions System industry at global, regional, and country levels?

Which types, applications, and technologies present the highest growth potential?

How are supply chains adapting to geopolitical and economic shocks?

What role do policy frameworks, trade flows, and sustainability targets play in shaping demand?

Who are the leading players, and how are their strategies evolving in the face of global uncertainty?

Which regional “hotspots” and customer segments will outpace the market, and what go-to-market and partnership models best support entry and expansion?

Where are the most investable opportunities—across technology roadmaps, sustainability-linked innovation, and M&A—and what is the best segment to invest over the next 3–5 years?

### Your Key Takeaways from the Industrial Data Acquisitions System Market Report

Global Industrial Data Acquisitions System market size and growth projections (CAGR), 2024-2034

Impact of Russia-Ukraine, Israel-Palestine, and Hamas conflicts on Industrial Data Acquisitions System trade, costs, and supply chains

Industrial Data Acquisitions System market size, share, and outlook across 5 regions and 27 countries, 2023-2034

Industrial Data Acquisitions System market size, CAGR, and market share of key products, applications, and end-user verticals, 2023-2034

Short- and long-term Industrial Data Acquisitions System market trends, drivers, restraints, and opportunities

Porter's Five Forces analysis, technological developments, and Industrial Data Acquisitions System supply chain analysis

Industrial Data Acquisitions System trade analysis, Industrial Data Acquisitions System market price analysis, and Industrial Data Acquisitions System supply/demand dynamics

Profiles of 5 leading companies—overview, key strategies, financials, and products

Latest Industrial Data Acquisitions System market news and developments

## Additional Support

With the purchase of this report, you will receive

An updated PDF report and an MS Excel data workbook containing all market tables and figures for easy analysis.

7-day post-sale analyst support for clarifications and in-scope supplementary data, ensuring the deliverable aligns precisely with your requirements.

Complimentary report update to incorporate the latest available data and the

impact of recent market developments.

*\* The updated report will be delivered within 3 working days*

## Contents

### **1. TABLE OF CONTENTS**

- 1.1 List of Tables
- 1.2 List of Figures

### **2. GLOBAL INDUSTRIAL DATA ACQUISITIONS SYSTEM MARKET SUMMARY, 2025**

- 2.1 Industrial Data Acquisitions System Industry Overview
  - 2.1.1 Global Industrial Data Acquisitions System Market Revenues (In US\$ billion)
- 2.2 Industrial Data Acquisitions System Market Scope
- 2.3 Research Methodology

### **3. INDUSTRIAL DATA ACQUISITIONS SYSTEM MARKET INSIGHTS, 2024-2034**

- 3.1 Industrial Data Acquisitions System Market Drivers
- 3.2 Industrial Data Acquisitions System Market Restraints
- 3.3 Industrial Data Acquisitions System Market Opportunities
- 3.4 Industrial Data Acquisitions System Market Challenges
- 3.5 Tariff Impact on Global Industrial Data Acquisitions System Supply Chain Patterns

### **4. INDUSTRIAL DATA ACQUISITIONS SYSTEM MARKET ANALYTICS**

- 4.1 Industrial Data Acquisitions System Market Size and Share, Key Products, 2025 Vs 2034
- 4.2 Industrial Data Acquisitions System Market Size and Share, Dominant Applications, 2025 Vs 2034
- 4.3 Industrial Data Acquisitions System Market Size and Share, Leading End Uses, 2025 Vs 2034
- 4.4 Industrial Data Acquisitions System Market Size and Share, High Growth Countries, 2025 Vs 2034
- 4.5 Five Forces Analysis for Global Industrial Data Acquisitions System Market
  - 4.5.1 Industrial Data Acquisitions System Industry Attractiveness Index, 2025
  - 4.5.2 Industrial Data Acquisitions System Supplier Intelligence
  - 4.5.3 Industrial Data Acquisitions System Buyer Intelligence
  - 4.5.4 Industrial Data Acquisitions System Competition Intelligence
  - 4.5.5 Industrial Data Acquisitions System Product Alternatives and Substitutes

Intelligence

4.5.6 Industrial Data Acquisitions System Market Entry Intelligence

## **5. GLOBAL INDUSTRIAL DATA ACQUISITIONS SYSTEM MARKET STATISTICS – INDUSTRY REVENUE, MARKET SHARE, GROWTH TRENDS AND FORECAST BY SEGMENTS, TO 2034**

5.1 World Industrial Data Acquisitions System Market Size, Potential and Growth Outlook, 2024- 2034 (\$ billion)

5.1 Global Industrial Data Acquisitions System Sales Outlook and CAGR Growth By Type, 2024- 2034 (\$ billion)

5.2 Global Industrial Data Acquisitions System Sales Outlook and CAGR Growth By Channel, 2024- 2034 (\$ billion)

5.3 Global Industrial Data Acquisitions System Sales Outlook and CAGR Growth By End-User Vertical, 2024- 2034 (\$ billion)

5.4 Global Industrial Data Acquisitions System Market Sales Outlook and Growth by Region, 2024- 2034 (\$ billion)

## **6. ASIA PACIFIC INDUSTRIAL DATA ACQUISITIONS SYSTEM INDUSTRY STATISTICS – MARKET SIZE, SHARE, COMPETITION AND OUTLOOK**

6.1 Asia Pacific Industrial Data Acquisitions System Market Insights, 2025

6.2 Asia Pacific Industrial Data Acquisitions System Market Revenue Forecast By Type, 2024- 2034 (USD billion)

6.3 Asia Pacific Industrial Data Acquisitions System Market Revenue Forecast By Channel, 2024- 2034 (USD billion)

6.4 Asia Pacific Industrial Data Acquisitions System Market Revenue Forecast By End-User Vertical, 2024- 2034 (USD billion)

6.5 Asia Pacific Industrial Data Acquisitions System Market Revenue Forecast by Country, 2024- 2034 (USD billion)

6.5.1 China Industrial Data Acquisitions System Market Size, Opportunities, Growth 2024- 2034

6.5.2 India Industrial Data Acquisitions System Market Size, Opportunities, Growth 2024- 2034

6.5.3 Japan Industrial Data Acquisitions System Market Size, Opportunities, Growth 2024- 2034

6.5.4 Australia Industrial Data Acquisitions System Market Size, Opportunities, Growth 2024- 2034

## **7. EUROPE INDUSTRIAL DATA ACQUISITIONS SYSTEM MARKET DATA, PENETRATION, AND BUSINESS PROSPECTS TO 2034**

7.1 Europe Industrial Data Acquisitions System Market Key Findings, 2025

7.2 Europe Industrial Data Acquisitions System Market Size and Percentage Breakdown By Type, 2024- 2034 (USD billion)

7.3 Europe Industrial Data Acquisitions System Market Size and Percentage Breakdown By Channel, 2024- 2034 (USD billion)

7.4 Europe Industrial Data Acquisitions System Market Size and Percentage Breakdown By End-User Vertical, 2024- 2034 (USD billion)

7.5 Europe Industrial Data Acquisitions System Market Size and Percentage Breakdown by Country, 2024- 2034 (USD billion)

7.5.1 Germany Industrial Data Acquisitions System Market Size, Trends, Growth Outlook to 2034

7.5.2 United Kingdom Industrial Data Acquisitions System Market Size, Trends, Growth Outlook to 2034

7.5.2 France Industrial Data Acquisitions System Market Size, Trends, Growth Outlook to 2034

7.5.2 Italy Industrial Data Acquisitions System Market Size, Trends, Growth Outlook to 2034

7.5.2 Spain Industrial Data Acquisitions System Market Size, Trends, Growth Outlook to 2034

## **8. NORTH AMERICA INDUSTRIAL DATA ACQUISITIONS SYSTEM MARKET SIZE, GROWTH TRENDS, AND FUTURE PROSPECTS TO 2034**

8.1 North America Snapshot, 2025

8.2 North America Industrial Data Acquisitions System Market Analysis and Outlook By Type, 2024- 2034 (\$ billion)

8.3 North America Industrial Data Acquisitions System Market Analysis and Outlook By Channel, 2024- 2034 (\$ billion)

8.4 North America Industrial Data Acquisitions System Market Analysis and Outlook By End-User Vertical, 2024- 2034 (\$ billion)

8.5 North America Industrial Data Acquisitions System Market Analysis and Outlook by Country, 2024- 2034 (\$ billion)

8.5.1 United States Industrial Data Acquisitions System Market Size, Share, Growth Trends and Forecast, 2024- 2034

8.5.1 Canada Industrial Data Acquisitions System Market Size, Share, Growth Trends and Forecast, 2024- 2034

8.5.1 Mexico Industrial Data Acquisitions System Market Size, Share, Growth Trends and Forecast, 2024- 2034

## **9. SOUTH AND CENTRAL AMERICA INDUSTRIAL DATA ACQUISITIONS SYSTEM MARKET DRIVERS, CHALLENGES, AND FUTURE PROSPECTS**

9.1 Latin America Industrial Data Acquisitions System Market Data, 2025

9.2 Latin America Industrial Data Acquisitions System Market Future By Type, 2024-2034 (\$ billion)

9.3 Latin America Industrial Data Acquisitions System Market Future By Channel, 2024-2034 (\$ billion)

9.4 Latin America Industrial Data Acquisitions System Market Future By End-User Vertical, 2024- 2034 (\$ billion)

9.5 Latin America Industrial Data Acquisitions System Market Future by Country, 2024-2034 (\$ billion)

9.5.1 Brazil Industrial Data Acquisitions System Market Size, Share and Opportunities to 2034

9.5.2 Argentina Industrial Data Acquisitions System Market Size, Share and Opportunities to 2034

## **10. MIDDLE EAST AFRICA INDUSTRIAL DATA ACQUISITIONS SYSTEM MARKET OUTLOOK AND GROWTH PROSPECTS**

10.1 Middle East Africa Overview, 2025

10.2 Middle East Africa Industrial Data Acquisitions System Market Statistics By Type, 2024- 2034 (USD billion)

10.3 Middle East Africa Industrial Data Acquisitions System Market Statistics By Channel, 2024- 2034 (USD billion)

10.4 Middle East Africa Industrial Data Acquisitions System Market Statistics By End-User Vertical, 2024- 2034 (USD billion)

10.5 Middle East Africa Industrial Data Acquisitions System Market Statistics by Country, 2024- 2034 (USD billion)

10.5.1 Middle East Industrial Data Acquisitions System Market Value, Trends, Growth Forecasts to 2034

10.5.2 Africa Industrial Data Acquisitions System Market Value, Trends, Growth Forecasts to 2034

## **11. INDUSTRIAL DATA ACQUISITIONS SYSTEM MARKET STRUCTURE AND COMPETITIVE LANDSCAPE**

- 11.1 Key Companies in Industrial Data Acquisitions System Industry
- 11.2 Industrial Data Acquisitions System Business Overview
- 11.3 Industrial Data Acquisitions System Product Portfolio Analysis
- 11.4 Financial Analysis
- 11.5 SWOT Analysis

## **12 APPENDIX**

- 12.1 Global Industrial Data Acquisitions System Market Volume (Tons)
- 12.1 Global Industrial Data Acquisitions System Trade and Price Analysis
- 12.2 Industrial Data Acquisitions System Parent Market and Other Relevant Analysis
- 12.3 Publisher Expertise
- 12.2 Industrial Data Acquisitions System Industry Report Sources and Methodology

## I would like to order

Product name: Industrial Data Acquisitions System Market Outlook 2025-2034: Market Share, and Growth Analysis By Type (External Chassis And Modules, Plug-In Analog I/O boards, Software), By Channel (Less Than 32, 32-128, Greater Than 128), By End-User Vertical

Product link: <https://marketpublishers.com/r/IF252010945FEN.html>

Price: US\$ 3,950.00 (Single User License / Electronic Delivery)

If you want to order Corporate License or Hard Copy, please, contact our Customer Service:

[info@marketpublishers.com](mailto:info@marketpublishers.com)

## Payment

To pay by Credit Card (Visa, MasterCard, American Express, PayPal), please, click button on product page <https://marketpublishers.com/r/IF252010945FEN.html>