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Global Data Acquisition System Market Size study & Forecast, by Component (Hardware, Software), by Speed (High-speed, Low-speed), by Industry Vertical (Automotive & Transportation, Healthcare, Food & Beverage, Aerospace & Defense, Power & Energy, Manufacturing, Others) and Regional Analysis, 2023-2030

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Abstracts

Global Data Acquisition System Market is valued at approximately USD xx billion in 2022 and is anticipated to grow with a healthy growth rate of more than xx% over the forecast period 2023-2030. Data Acquisition System (DAS) is a collection of hardware and software components used to gather and process data from various sources, such as sensors, instruments, and other measurement devices. The Data Acquisition System market is expanding because of factors such as the growing adoption of connected devices and surging demand for high-speed connectivity. The primary function data acquisition system is to capture, digitize, store, and analyze data in real-time analysis. DAS is implemented in various applications, including scientific research, industrial automation, automotive testing, environmental monitoring, and more.

Gateway devices serve as intermediaries between the connected devices and the central system. They facilitate data aggregation, protocol translation, and secure data transmission. According to Statista, the global number of Internet of Things (IoT) devices is expected to nearly double from 15.1 billion in 2020 to reach up to 29 billion by 2030. Furthermore, in 2030, China is going to have the most IoT devices, with over 8 billion consumer devices. Another important factor that drives the Data Acquisition System market is the increasing demand for high-speed connectivity. High-speed connectivity allows for rapid and continuous data acquisition from multiple sensors and

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devices. This is especially important in applications where real-time monitoring and control are critical, such as industrial automation, process control, and autonomous systems. In addition, as per Statista, in 2023, Qatar has the world's fastest average mobile internet connection, registering at nearly 190 Mbps. The United Arab Emirates and Macau were next, with each having average median speeds of more than 170 Mbps. Moreover, growing investments in the automotive sector and rising industrial automation are anticipated to create lucrative growth opportunities for the market over the forecast period. However, risk associated with data breach and technical complexity stifles market growth throughout the forecast period of 2023-2030.

The key regions considered for the Global Data Acquisition System Market study includes Asia Pacific, North America, Europe, Latin America, and Middle East & Africa. North America dominated the market in 2022 owing to favorable governmental changes, significant industrial automation adoption, and new intelligent manufacturing ventures in the region. Furthermore, Asia Pacific is expected to grow significantly over the forecast period, owing to factors such as the growing presence of multiple auto OEMs and factories and stringent regulatory policies pertaining to the testing and measurement of products in the region.

Major market player included in this report are:

Emerson Electric Co

Teledyne Technologies Incorporated

Keysight Technologies

Spectris plc

Siemens Digital Industries Software

National Instruments Corporation

ADLINK Technology, Inc

Yokogawa Electric Corporation

General Electric Company

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AstroNova, Inc

Recent Developments in the Market:

In June 2023, imc Test & Measurement introduced the modular data acquisition system called imc ARGUSfit. This cutting-edge system allows users to easily connect the base unit with additional amplifier and fieldbus interface modules, such as CAN FD, offering unparalleled flexibility for vehicle and machine testing and monitoring.

Global Data Acquisition System Market Report Scope:

Historical Data – 2020 - 2021

Base Year for Estimation – 2022

Forecast period - 2023-2030

Report Coverage - Revenue forecast, Company Ranking, Competitive Landscape, Growth factors, and Trends

Segments Covered - Component, Speed, Industry Vertical, Region

Regional Scope - North America; Europe; Asia Pacific; Latin America; Middle East & Africa

Customization Scope - Free report customization (equivalent up to 8 analyst's working hours) with purchase. Addition or alteration to country, regional & segment scope*

The objective of the study is to define market sizes of different segments & countries in recent years and to forecast the values to the coming years. The report is designed to incorporate both qualitative and quantitative aspects of the industry within countries involved in the study.

The report also caters detailed information about the crucial aspects such as driving factors & challenges which will define the future growth of the market. Additionally, it

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also incorporates potential opportunities in micro markets for stakeholders to invest along with the detailed analysis of competitive landscape and product offerings of key players. The detailed segments and sub-segment of the market are explained below:

By Component

Hardware

Software

By Speed

High-speed

Low-speed

By Industry Vertical

Automotive & Transportation

Healthcare

Food & Beverage

Aerospace & Defense

Power & Energy

Manufacturing

Others

By Region:

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South Africa

Rest of Middle East & Africa

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Contents

CHAPTER 1. EXECUTIVE SUMMARY

1.1. Market Snapshot
1.2. Global & Segmental Market Estimates & Forecasts, 2020-2030 (USD Billion)
  1.2.1. Data Acquisition System Market, by Region, 2020-2030 (USD Billion)
  1.2.2. Data Acquisition System Market, by Component, 2020-2030 (USD Billion)
  1.2.3. Data Acquisition System Market, by Speed, 2020-2030 (USD Billion)
  1.2.4. Data Acquisition System Market, by Industry Vertical, 2020-2030 (USD Billion)
1.3. Key Trends
1.4. Estimation Methodology
1.5. Research Assumption

CHAPTER 2. GLOBAL DATA ACQUISITION SYSTEM MARKET DEFINITION AND SCOPE

2.1. Objective of the Study
2.2. Market Definition & Scope
  2.2.1. Industry Evolution
  2.2.2. Scope of the Study
2.3. Years Considered for the Study
2.4. Currency Conversion Rates

CHAPTER 3. GLOBAL DATA ACQUISITION SYSTEM MARKET DYNAMICS

3.1. Data Acquisition System Market Impact Analysis (2020-2030)
  3.1.1. Market Drivers
    3.1.1.1. Growing adoption of connected devices
    3.1.1.2. Surging demand for high-speed connectivity
  3.1.2. Market Challenges
    3.1.2.1. Risk associated with data breach
    3.1.2.2. Technical complexity
  3.1.3. Market Opportunities
    3.1.3.1. Growing investments in the automotive sector
    3.1.3.2. Rising industrial automation

CHAPTER 4. GLOBAL DATA ACQUISITION SYSTEM MARKET INDUSTRY ANALYSIS

+44 20 8123 2220
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4.1. Porter’s 5 Force Model
4.1.1. Bargaining Power of Suppliers
4.1.2. Bargaining Power of Buyers
4.1.3. Threat of New Entrants
4.1.4. Threat of Substitutes
4.1.5. Competitive Rivalry
4.2. Porter’s 5 Force Impact Analysis
4.3. PEST Analysis
4.3.1. Political
4.3.2. Economical
4.3.3. Social
4.3.4. Technological
4.3.5. Environmental
4.3.6. Legal
4.4. Top investment opportunity
4.5. Top winning strategies
4.6. COVID-19 Impact Analysis
4.7. Disruptive Trends
4.8. Industry Expert Perspective
4.9. Analyst Recommendation & Conclusion

CHAPTER 5. GLOBAL DATA ACQUISITION SYSTEM MARKET, BY COMPONENT

5.1. Market Snapshot
5.2. Global Data Acquisition System Market by Component, Performance - Potential Analysis
5.3. Global Data Acquisition System Market Estimates & Forecasts by Component 2020-2030 (USD Billion)
5.4. Data Acquisition System Market, Sub Segment Analysis
5.4.1. Hardware
5.4.2. Software

CHAPTER 6. GLOBAL DATA ACQUISITION SYSTEM MARKET, BY SPEED

6.1. Market Snapshot
6.2. Global Data Acquisition System Market by Speed, Performance - Potential Analysis
6.3. Global Data Acquisition System Market Estimates & Forecasts by Speed 2020-2030 (USD Billion)

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info@marketpublishers.com

6.4. Data Acquisition System Market, Sub Segment Analysis
6.4.1. High-speed
6.4.2. Low-speed

CHAPTER 7. GLOBAL DATA ACQUISITION SYSTEM MARKET, BY INDUSTRY VERTICAL

7.1. Market Snapshot
7.2. Global Data Acquisition System Market by Industry Vertical, Performance - Potential Analysis
7.3. Global Data Acquisition System Market Estimates & Forecasts by Industry Vertical 2020-2030 (USD Billion)
7.4. Data Acquisition System Market, Sub Segment Analysis
7.4.1. Automotive & Transportation
7.4.2. Healthcare
7.4.3. Food & Beverage
7.4.4. Aerospace & Defense
7.4.5. Power & Energy
7.4.6. Manufacturing
7.4.7. Others

CHAPTER 8. GLOBAL DATA ACQUISITION SYSTEM MARKET, REGIONAL ANALYSIS

8.1. Top Leading Countries
8.2. Top Emerging Countries
8.3. Data Acquisition System Market, Regional Market Snapshot
8.4. North America Data Acquisition System Market
8.4.1. U.S. Data Acquisition System Market
8.4.1.1. Component breakdown estimates & forecasts, 2020-2030
8.4.1.2. Speed breakdown estimates & forecasts, 2020-2030
8.4.1.3. Industry Vertical breakdown estimates & forecasts, 2020-2030
8.4.2. Canada Data Acquisition System Market
8.5. Europe Data Acquisition System Market Snapshot
8.5.1. U.K. Data Acquisition System Market
8.5.2. Germany Data Acquisition System Market
8.5.3. France Data Acquisition System Market
8.5.4. Spain Data Acquisition System Market
8.5.5. Italy Data Acquisition System Market

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8.5.6. Rest of Europe Data Acquisition System Market
8.6. Asia-Pacific Data Acquisition System Market Snapshot
8.6.1. China Data Acquisition System Market
8.6.2. India Data Acquisition System Market
8.6.3. Japan Data Acquisition System Market
8.6.4. Australia Data Acquisition System Market
8.6.5. South Korea Data Acquisition System Market
8.6.6. Rest of Asia Pacific Data Acquisition System Market
8.7. Latin America Data Acquisition System Market Snapshot
8.7.1. Brazil Data Acquisition System Market
8.7.2. Mexico Data Acquisition System Market
8.8. Middle East & Africa Data Acquisition System Market
8.8.1. Saudi Arabia Data Acquisition System Market
8.8.2. South Africa Data Acquisition System Market
8.8.3. Rest of Middle East & Africa Data Acquisition System Market

CHAPTER 9. COMPETITIVE INTELLIGENCE

9.1. Key Company SWOT Analysis
9.1.1. Company
9.1.2. Company
9.1.3. Company
9.2. Top Market Strategies
9.3. Company Profiles
9.3.1. Emerson Electric Co
9.3.1.1. Key Information
9.3.1.2. Overview
9.3.1.3. Financial (Subject to Data Availability)
9.3.1.4. Product Summary
9.3.1.5. Recent Developments
9.3.2. Teledyne Technologies Incorporated
9.3.3. Keysight Technologies
9.3.4. Spectris plc
9.3.5. Siemens Digital Industries Software
9.3.6. National Instruments Corporation
9.3.7. ADLINK Technology, Inc
9.3.8. Yokogawa Electric Corporation
9.3.9. General Electric Company
9.3.10. AstroNova, Inc

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CHAPTER 10. RESEARCH PROCESS

10.1. Research Process
  10.1.1. Data Mining
  10.1.2. Analysis
  10.1.3. Market Estimation
  10.1.4. Validation
  10.1.5. Publishing
10.2. Research Attributes
10.3. Research Assumption

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