

Global Data Acquisition (DAQ) Hardware Market 2024 by Manufacturers, Regions, Type and Application, Forecast to 2030

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Abstracts

According to our (Global Info Research) latest study, the global Data Acquisition (DAQ) Hardware market size was valued at USD 1507.9 million in 2023 and is forecast to a readjusted size of USD 1921.3 million by 2030 with a CAGR of 3.5% during review period.

Data acquisition hardware comprises signal conditioning circuitry, sensors, and analog-to-digital converters. Sensors are also called transducers that convert physical parameters into measurable electrical signals. The signal circuitry converts sensor signals to numerical values. Data acquisition hardware is an industrial control system that collects the data from instruments and sensors positioned at isolated sites, then communicates and demonstrates this data at an essential site for monitoring and control purposes. It is also used to collect and analyze data in real time.

Data acquisition hardware is widely adopted for design validation, research & analysis, manufacturing & quality tests, asset condition monitoring, verification, diagnostics & repair, and computer based control and automation. Further, increasing analysis and design activities such as modeling behavior of scientific phenomenon and new product design is expected to support the growth of the data acquisition hardware market. Operations such as verifying product lifecycle, testing for accuracy and reliability, ensuring conformance to industry standards, and establishing evidence, design validation and testing is required for maintaining the required standards. The manufacturing and quality testing for electrical, mechanical, and environmental parameters is also carried out with the help of data acquisition hardware. Diagnostics and repair systems are useful to recognize root cause of the problem within machinery and image inspection systems. Moreover, asset conditioning and monitoring solutions

are used for the durable condition monitoring of equipment such as turbines and compressors and to detect problems and prevent failures. Condition monitoring helps to prevent outages, optimize performance, and reduce repair costs. Computer based control systems help in handling various processes and machinery without human interaction. However, increasing complexity related to signal conditioning in the data acquisition market is expected to restrain the growth of this market.

The Global Info Research report includes an overview of the development of the Data Acquisition (DAQ) Hardware industry chain, the market status of Agriculture (Portable Type, Fixed Type), Healthcare (Portable Type, Fixed Type), and key enterprises in developed and developing market, and analysed the cutting-edge technology, patent, hot applications and market trends of Data Acquisition (DAQ) Hardware.

Regionally, the report analyzes the Data Acquisition (DAQ) Hardware markets in key regions. North America and Europe are experiencing steady growth, driven by government initiatives and increasing consumer awareness. Asia-Pacific, particularly China, leads the global Data Acquisition (DAQ) Hardware market, with robust domestic demand, supportive policies, and a strong manufacturing base.

Key Features:

The report presents comprehensive understanding of the Data Acquisition (DAQ) Hardware market. It provides a holistic view of the industry, as well as detailed insights into individual components and stakeholders. The report analysis market dynamics, trends, challenges, and opportunities within the Data Acquisition (DAQ) Hardware industry.

The report involves analyzing the market at a macro level:

Market Sizing and Segmentation: Report collect data on the overall market size, including the sales quantity (K Units), revenue generated, and market share of different by Type (e.g., Portable Type, Fixed Type).

Industry Analysis: Report analyse the broader industry trends, such as government policies and regulations, technological advancements, consumer preferences, and market dynamics. This analysis helps in understanding the key drivers and challenges influencing the Data Acquisition (DAQ) Hardware market.

Regional Analysis: The report involves examining the Data Acquisition (DAQ) Hardware

market at a regional or national level. Report analyses regional factors such as government incentives, infrastructure development, economic conditions, and consumer behaviour to identify variations and opportunities within different markets.

Market Projections: Report covers the gathered data and analysis to make future projections and forecasts for the Data Acquisition (DAQ) Hardware market. This may include estimating market growth rates, predicting market demand, and identifying emerging trends.

The report also involves a more granular approach to Data Acquisition (DAQ) Hardware:

Company Analysis: Report covers individual Data Acquisition (DAQ) Hardware manufacturers, suppliers, and other relevant industry players. This analysis includes studying their financial performance, market positioning, product portfolios, partnerships, and strategies.

Consumer Analysis: Report covers data on consumer behaviour, preferences, and attitudes towards Data Acquisition (DAQ) Hardware. This may involve surveys, interviews, and analysis of consumer reviews and feedback from different by Application (Agriculture, Healthcare).

Technology Analysis: Report covers specific technologies relevant to Data Acquisition (DAQ) Hardware. It assesses the current state, advancements, and potential future developments in Data Acquisition (DAQ) Hardware areas.

Competitive Landscape: By analyzing individual companies, suppliers, and consumers, the report presents insights into the competitive landscape of the Data Acquisition (DAQ) Hardware market. This analysis helps understand market share, competitive advantages, and potential areas for differentiation among industry players.

Market Validation: The report involves validating findings and projections through primary research, such as surveys, interviews, and focus groups.

Market Segmentation

Data Acquisition (DAQ) Hardware market is split by Type and by Application. For the period 2019-2030, the growth among segments provides accurate calculations and forecasts for consumption value by Type, and by Application in terms of volume and

value.

Market segment by Type

Portable Type

Fixed Type

Market segment by Application

Agriculture

Healthcare

Security

Industrial

Communication

Major players covered

National Instruments

Advantech

ADLINK Technology

Contec

Microstar Laboratories

Yokogawa

OMEGA Engineering

Coleman Technologies

Market segment by region, regional analysis covers

North America (United States, Canada and Mexico)

Europe (Germany, France, United Kingdom, Russia, Italy, and Rest of Europe)

Asia-Pacific (China, Japan, Korea, India, Southeast Asia, and Australia)

South America (Brazil, Argentina, Colombia, and Rest of South America)

Middle East & Africa (Saudi Arabia, UAE, Egypt, South Africa, and Rest of Middle East & Africa)

The content of the study subjects, includes a total of 15 chapters:

Chapter 1, to describe Data Acquisition (DAQ) Hardware product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Data Acquisition (DAQ) Hardware, with price, sales, revenue and global market share of Data Acquisition (DAQ) Hardware from 2019 to 2024.

Chapter 3, the Data Acquisition (DAQ) Hardware competitive situation, sales quantity, revenue and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Data Acquisition (DAQ) Hardware breakdown data are shown at the regional level, to show the sales quantity, consumption value and growth by regions, from 2019 to 2030.

Chapter 5 and 6, to segment the sales by Type and application, with sales market share and growth rate by type, application, from 2019 to 2030.

Chapter 7, 8, 9, 10 and 11, to break the sales data at the country level, with sales quantity, consumption value and market share for key countries in the world, from 2017 to 2023. and Data Acquisition (DAQ) Hardware market forecast, by regions, type and

application, with sales and revenue, from 2025 to 2030.

Chapter 12, market dynamics, drivers, restraints, trends and Porters Five Forces analysis.

Chapter 13, the key raw materials and key suppliers, and industry chain of Data Acquisition (DAQ) Hardware.

Chapter 14 and 15, to describe Data Acquisition (DAQ) Hardware sales channel, distributors, customers, research findings and conclusion.

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