

Global Ethernet Data Acquisition Systems Market 2026 by Manufacturers, Regions, Type and Application, Forecast to 2032

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Abstracts

According to our (Global Info Research) latest study, the global Ethernet Data Acquisition Systems market size was valued at US\$ 1111 million in 2025 and is forecast to a readjusted size of US\$ 1685 million by 2032 with a CAGR of 6.2% during review period.

In 2025, global Ethernet Data Acquisition Systems production reached approximately 0.83 M Units. The average price is approximately \$1,300. Ethernet Data Acquisition Systems refer to hardware systems, modules, chassis, front-ends and networked data loggers that use Ethernet, LAN, LXI or industrial Ethernet protocols as the primary interface for communication, remote networking, data transmission or multi-node synchronization.

Based on our research, Ethernet data acquisition systems should be viewed as a specialized hardware market shaped by the networking and distributed deployment of traditional DAQ systems, data loggers, remote I/O modules and dynamic signal acquisition front-ends. The core value of this market lies in extending measurement tasks from local USB, PCI, PXI or standalone recording architectures to networked measurement systems that can be deployed across test benches, production lines, remote assets and distributed field locations. Under a narrow market scope, this topic should not be generalized into the entire industrial remote I/O or PLC I/O market. It should focus on hardware systems that perform measurement-oriented data acquisition and use Ethernet, LAN, LXI or industrial Ethernet protocols as a key communication, synchronization or host interface. Because product prices range from low-cost industrial modules to high-end multi-channel dynamic acquisition systems, competitive analysis must consider not only shipment volume, but also channel density, signal type,

synchronization capability, software integration and application depth.

From a supply-side perspective, the global market is structured around a small group of platform vendors, a larger set of specialized measurement companies and many regional industrial module suppliers. Emerson / NI, Keysight, Advantech and Yokogawa have broad visibility across general-purpose test, electronic measurement, data logging and industrial automation channels. Dewesoft, HBK, imc, DEWETRON, Gantner, UEI, Kistler, Crystal Instruments, OROS, m+p and Prosig are more focused on high-end testing, dynamic signal acquisition, NVH, structural testing and energy-related measurement. ICP DAS, ADLINK, Moxa, CONTEC, Sealevel, Acromag and Brainboxes mainly address industrial Ethernet remote I/O and edge data acquisition applications. Chinese suppliers are becoming more visible in general DAQ cards, engineering test systems and distributed dynamic signal acquisition, but most still need stronger global channels, high-end software ecosystems and advanced synchronization capabilities to compete directly with established European, American and Japanese suppliers.

Demand growth is driven by electrified vehicles, battery testing, NVH and vibration measurement, structural health monitoring, energy and power systems, smart manufacturing data acquisition, electronics production test and aerospace-grade measurement. The competitive advantage of Ethernet DAQ is not merely the presence of an Ethernet port; it is the ability to support long-distance cabling, distributed nodes, synchronized measurement, PoE power supply, Gigabit Ethernet throughput and centralized software management. These features reduce system deployment complexity and improve real-time visibility, data traceability and scalability. Over the next several years, product development is expected to move toward higher channel density, edge processing, open protocol support, precise time synchronization, hybrid wired/wireless deployment and closer integration with cloud or industrial data platforms. At the same time, PLC I/O, smart sensors, edge gateways and software-centric test platforms will continue to pressure the low-end module segment, making precision, synchronization, ruggedness, application-specific software and high-reliability use cases the more defensible growth areas.

This report is a detailed and comprehensive analysis for global Ethernet Data Acquisition Systems market. Both quantitative and qualitative analyses are presented by manufacturers, by region & country, by Type and by Application. As the market is constantly changing, this report explores the competition, supply and demand trends, as well as key factors that contribute to its changing demands across many markets. Company profiles and product examples of selected competitors, along with market share estimates of some of the selected leaders for the year 2025, are provided.

Key Features:

Global Ethernet Data Acquisition Systems market size and forecasts, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2021-2032

Global Ethernet Data Acquisition Systems market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2021-2032

Global Ethernet Data Acquisition Systems market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2021-2032

Global Ethernet Data Acquisition Systems market shares of main players, shipments in revenue (\$ Million), sales quantity (K Units), and ASP (US\$/Unit), 2021-2026

The Primary Objectives in This Report Are:

- To determine the size of the total market opportunity of global and key countries

- To assess the growth potential for Ethernet Data Acquisition Systems

- To forecast future growth in each product and end-use market

- To assess competitive factors affecting the marketplace

This report profiles key players in the global Ethernet Data Acquisition Systems market based on the following parameters - company overview, sales quantity, revenue, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Emerson, Dewesoft, HBK, Keysight, Advantech, Yokogawa, imc Test & Measurement, DEWETRON, Gantner Instruments, UEI, etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

Market Segmentation

Ethernet Data Acquisition Systems market is split by Type and by Application. For the period 2021-2032, the growth among segments provides accurate calculations and forecasts for consumption value by Type, and by Application in terms of volume and value. This analysis can help you expand your business by targeting qualified niche markets.

Market segment by Type

Modular Ethernet DAQ Chassis

Standalone Ethernet DAQ Device

Market segment by Sampling Rate

Low-Speed ??Ethernet DAQ System: Single-channel sampling rate ? 100 kS/s

Medium-Speed ??Ethernet DAQ System: Single-channel sampling rate 100 kS/s ? 1 MS/s

High-Speed ??Ethernet DAQ System: Single-channel sampling rate 1 MS/s ? 100 MS/s

Ultra-High-Speed ??Ethernet DAQ System: Single-channel sampling rate > 100 MS/s

Market segment by Features

General-Purpose Ethernet DAQ System

Dedicated Ethernet DAQ System

Market segment by Application

Industrial Automation

Automotive Manufacturing

Aerospace

Others

Major players covered

Emerson

Dewesoft

HBK

Keysight

Advantech

Yokogawa

imc Test & Measurement

DEWETRON

Gantner Instruments

UEI

AMETEK

Spectrum Instrumentation

Kistler

Crystal Instruments

ICP DAS

Acromag

Graphtec

Jiangsu Donghua Testing

ADLINK

DATAQ

LabJack

OROS

m+p international

Sealevel

Ahlborn

Prosig

Digilent

CONTEC

Brainboxes

Beijing ART

Beijing Queentest

Moxa

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 Ethernet Data Acquisition Systems product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Ethernet Data Acquisition Systems, with price, sales quantity, revenue, and global market share of Ethernet Data Acquisition Systems from 2021 to 2026.

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

Chapter 4, the Ethernet Data Acquisition Systems breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2021 to 2032.

Chapter 5 and 6, to segment the sales by Type and by Application, with sales market share and growth rate by Type, by Application, from 2021 to 2032.

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 2021 to 2026. and Ethernet Data Acquisition Systems market forecast, by regions, by Type, and by Application, with sales and revenue, from 2027 to 2032.

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 Ethernet Data Acquisition Systems.

Chapter 14 and 15, to describe Ethernet Data Acquisition Systems sales channel, distributors, customers, research findings and conclusion.

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