

# Data Acquisition System - Global Market Outlook (2017-2026)

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## **Abstracts**

According to Stratistics MRC, the Global Data Acquisition System is accounted for \$1.61 billion in 2017 and is expected to reach \$2.69 billion by 2026 growing at a CAGR of 5.9% during the forecast period. Increased emphasis on energy efficiency, resource optimization, and cost of production, rise of big data, IoT, and industrial revolution 4.0 and technological advancement in data acquisition system are the key driving factors for the market growth. However, mature market in North America and Europe are some of the factors hindering the market growth.

Data acquisition is the process of sampling signals that measure real world physical conditions and converting the resulting samples into digital numeric values that can be manipulated by a computer. Data acquisition systems, abbreviated by the acronyms DAS or DAQ, typically convert analog waveforms into digital values for processing. The components of data acquisition systems include Sensors, to convert physical parameters to electrical signals, Signal conditioning circuitry, to convert sensor signals into a form that can be converted to digital values and Analog-to-digital converters, to convert conditioned sensor signals to digital values.

By End User, Automotive & Transportation is expected to grow at the highest CAGR during the forecast period. The growth of semiconductor IP in the automotive sector is due to the test process involved in the automotive industry which consists of a set of test solutions that are very articulated within the production line. During testing data, acquisition software is used to intelligently standardize, analyze, and report a large amount of data. Autonomous driving, connectivity, and electric mobility are all aspects that are expected to drive the demand for DAQ systems in the automotive industry during the forecast period. By geography, Asia Pacific is expected to continue lead the DAQ system market and also expected to be the fastest growing region. This is mainly



attributed due to the increase in the number of manufacturing plants in various sectors such as automotive, textiles, power, and pharmaceuticals. China, Japan, South Korea, and India offer some of the prolific automotive equipment manufacturers in APAC. Therefore, there is a continuous demand for the DAQ system market in APAC.

Some of the key players profiled in the Data Acquisition System include ABB Ltd, Agilent Technologies Inc, Ametek, Bruel & Kjaer Sound & Vibration, Campbell Scientific, Data Translation Inc, Emerson Electric Co, Genral Electric Co, HBM, Honeywell International, Keysight Technologies, Mathworks, National Instruments, Omron Corporation, Rockwell Automation, Siemens AG, Teledyne Technologies Inc and Yokogawa Electric Co.

Offerings Covered:			
	Services		
	Hardware		
	Software		
Products Covered:			
	LAN Extensions for Instrumentation (LXI)/ Ethernet		
	PCI Extensions for Instrumentation (PXI)		
	Peripheral Component Interconnect (PCI)		
	Standalone		
	Universal Serial Bus (USB)		
	VME Extensions for Instrumentation (VXI)		
	Components Covered:		
	Human Machine Interface (HMI)		



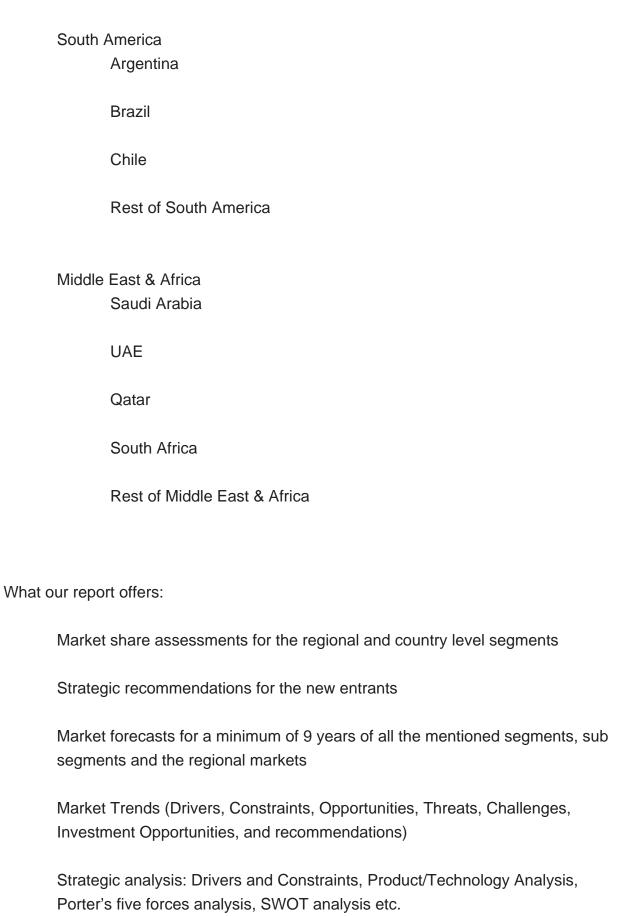
Pro	ogrammable Logic Controller (PLC
Re	emote Terminal Unit (RTU)
Ot	her Components
Application	ns Covered:
Fie	eld
lm	aging/Ultrasound
Inc	dustrial Monitoring
Ma	anufacturing
Re	esearch & Development (R&D)
Те	st & Measurement
En	d Users Covered:
Ac	ademic and Research
Ae	rospace & Defense
Au	tomotive & Transportation
En	ergy & Power
En	vironmental Monitoring
Fo	od & Beverages
He	ealthcare
Ot	her End Users



# Regions Covered:

ions dovered.			
North A	America US		
	Canada		
	Mexico		
Europe	<u> </u>		
	Germany		
	UK		
	Italy		
	France		
	Spain		
	Rest of Europe		
Asia Pa	acific Japan		
	China		
	India		
	Australia		
	New Zealand		
	South Korea		
	Rest of Asia Pacific		





Strategic recommendations in key business segments based on the market



estimations

Competitive landscaping mapping the key common trends

Company profiling with detailed strategies, financials, and recent developments

Supply chain trends mapping the latest technological advancements

## Free Customization Offerings:

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**Company Profiling** 

Comprehensive profiling of additional market players (up to 3)

SWOT Analysis of key players (up to 3)

Regional Segmentation

Market estimations, Forecasts and CAGR of any prominent country as per the clients interest (Note: Depends of feasibility check)

Competitive Benchmarking

Benchmarking of key players based on product portfolio, geographical presence, and strategic alliances



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Note: The tables for North America, Europe, APAC, South America, and Middle East & Africa Regions are also represented in the same manner as above.



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