

Global Wireless Data Acquisition System Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Wireless Data Acquisition System market size is expected to reach \$ 254 million by 2032, rising at a market growth of 7.7% CAGR during the forecast period (2026-2032).

In 2025, global Wireless Data Acquisition System production reached approximately 25,169 units, with an average global market price of around US\$ 5,943 per unit. Gross margin is about 44%. The cost is 3,328 usd per unit, the production is 40,000 units. A Wireless Data Acquisition System (Wireless DAQ) is a system that collects, transmits, and manages data using wireless communication technologies. It typically consists of sensors, data acquisition units, wireless communication modules (such as Wi-Fi, Bluetooth, LoRa, or 4G/5G), and data processing platforms. The system enables real-time remote monitoring of parameters such as temperature, pressure, vibration, and voltage. Compared with wired systems, wireless DAQ systems offer greater flexibility, lower installation costs, and better suitability for complex or mobile environments, and are widely used in industrial monitoring, environmental monitoring, energy management, and equipment condition monitoring.

Focus on low power and long battery life

Future systems will use ultra-low-power chips and energy harvesting to enable long-term maintenance-free operation.

Coexistence of LPWAN and 5G

LPWAN (LoRa, NB-IoT) will serve long-range low-data applications, while 5G will support high-speed, low-latency use cases.

Stronger edge computing capabilities

More data processing (filtering, compression, anomaly detection) will happen at the device level to reduce transmission load and improve response time.

Faster adoption of cloud and SaaS platforms

Wireless DAQ systems will increasingly connect to cloud platforms for visualization, analytics, remote management, and multi-site integration.

Deeper integration with Industrial IoT

Wireless DAQ will act as a key data layer within IIoT, connecting with MES, SCADA, and digital twin systems.

Increased focus on security and encryption

As wireless systems expand, cybersecurity, encryption, and authentication will become essential features.

Higher accuracy in wireless systems

Wireless DAQ is moving toward higher precision, expanding into laboratory-grade and high-end applications.

Expanding application scenarios

Use cases will grow beyond industry into smart cities, agriculture, construction, energy, transportation, and healthcare.

This report studies the global Wireless Data Acquisition System production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Wireless Data Acquisition System and provides market size (US\$ million) and Year-over-Year (YoY) Growth, considering 2025 as the base year. This report explores demand trends and competition, as well as details the characteristics of Wireless Data Acquisition System that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Wireless Data Acquisition System total production and demand, 2021-2032, (K Units)

Global Wireless Data Acquisition System total production value, 2021-2032, (USD Million)

Global Wireless Data Acquisition System production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (K Units), (based on production site)

Global Wireless Data Acquisition System consumption by region & country, CAGR, 2021-2032 & (K Units)

U.S. VS China: Wireless Data Acquisition System domestic production, consumption, key domestic manufacturers and share

Global Wireless Data Acquisition System production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (K Units)

Global Wireless Data Acquisition System production by Type, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

Global Wireless Data Acquisition System production by Application, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

This report profiles key players in the global Wireless Data Acquisition System market based on the following parameters - company overview, production, value, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include ABB, Schneider Electric, Yokogawa Electric, OMRON, Advantech, Beckhoff Automation, HBM (Hottinger Br?el & Kj?r), Dewesoft, Campbell Scientific, Omega Engineering, etc.

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

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the World Wireless Data Acquisition System market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (K Units) and average price (US\$/Unit) by manufacturer, by Type, and by Application. Data is given for the years 2021-2032 by year with 2025 as the base year, 2026 as the estimate year, and 2027-2032 as the forecast year.

Global Wireless Data Acquisition System Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Wireless Data Acquisition System Market, Segmentation by Type:

Distributed

Centralized

Global Wireless Data Acquisition System Market, Segmentation by Precision:

High-Precision Type

Medium-Precision Type

Standard-Precision Type

Global Wireless Data Acquisition System Market, Segmentation by Network:

Online Type

Offline Type

Global Wireless Data Acquisition System Market, Segmentation by Application:

Industrial Automation

Automotive

Environmental Monitoring

Others

Companies Profiled:

ABB

Schneider Electric

Yokogawa Electric

OMRON

Advantech

Beckhoff Automation

HBM (Hottinger Br el & Kj r)

Dewesoft

Campbell Scientific

Omega Engineering

Fluke Corporation

Kistler Group

IMC Test & Measurement

Kyowa Electronic Instruments

Deltason

Key Questions Answered:

1. How big is the global Wireless Data Acquisition System market?
2. What is the demand of the global Wireless Data Acquisition System market?
3. What is the year over year growth of the global Wireless Data Acquisition System market?
4. What is the production and production value of the global Wireless Data Acquisition System market?
5. Who are the key producers in the global Wireless Data Acquisition System market?
6. What are the growth factors driving the market demand?

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