

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

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Abstracts

The global Automotive Data Acquisition System market size is expected to reach \$ 458 million by 2032, rising at a market growth of 10.4% CAGR during the forecast period (2026-2032).

In 2025, global Automotive Data Acquisition System production reached approximately 38,581 units, with an average global market price of around US\$ 5,728 per unit. Gross margin is about 43%. The cost is 3,265 usd per unit, the production is 50,000 units. Automotive Data Acquisition System is a professional high-precision testing system specially developed for vehicle R&D, performance calibration, road testing and durability verification. It can synchronously collect, record and analyze multiple types of signals including analog, digital, bus, temperature, pressure and vibration data in vehicle complex operating environments. With strong anti-interference capability, high sampling accuracy and good environmental adaptability, it supports whole-vehicle dynamic monitoring, new energy three-electrical testing and intelligent driving data verification, serving as the core basic equipment for automotive engineering research and quality optimization.

AI & ML-Embedded Intelligence

Real-time anomaly detection, predictive maintenance, and intelligent data filtering integrated into DAQ hardware/software.

Automated corner case identification and test validation optimization, shortening R&D cycles.

Edge-Cloud Hybrid Architecture

High-speed edge computing for low-latency in-vehicle processing; cloud for big data analytics, storage, and remote collaboration.

Unified data platforms breaking silos between lab, road, and simulation data.

Wireless & High-Bandwidth Connectivity

Broad adoption of 5G/Wi-Fi 6/6E wireless telemetry, reducing wiring and enabling flexible deployment.

Multi-Gbps bus and Ethernet interfaces supporting high-frequency sampling (>50 kHz).

Software-Defined Vehicle (SDV) Compatibility

Deep integration with central computing platforms and zone-based E/E architectures.

Native support for OTA updates, service-oriented communication (SOME/IP), and virtual ECU testing.

EV & High-Voltage Specialization

Precision measurement for battery, motor, and power electronics.

Isolated, high-voltage-safe acquisition modules and thermal monitoring systems.

Synthetic & Mixed Data

Rising use of synthetic data (40-90% in autonomous driving) combined with real data.

Closed-loop data generation for ADAS/AD training and validation.

Cybersecurity & Compliance

Encrypted logging, secure boot, and data integrity verification (per UN R155, GDPR).

Privacy computing and "data available but not visible" frameworks.

Standardization & Interoperability

Open protocols and unified formats across suppliers.

Modular, software-upgradable hardware to extend lifecycle.

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

This report is a detailed and comprehensive analysis of the world market for Automotive 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 Automotive Data Acquisition System that contribute to its increasing demand across many markets.

Highlights and key features of the study

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

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

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

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

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

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

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

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

This report profiles key players in the global Automotive 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 AVL List, dSPACE, ETAS, Vector Informatik, CSM, HBK, Dewesoft, Racelogic, National Instruments, Intrepid Control Systems, 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 Automotive 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 Automotive Data Acquisition System Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Automotive Data Acquisition System Market, Segmentation by Type:

Hardware

Software

Global Automotive Data Acquisition System Market, Segmentation by Precision:

High-Precision Type

Medium-Precision Type

Standard-Precision Type

Global Automotive Data Acquisition System Market, Segmentation by Network:

Online Type

Offline Type

Global Automotive Data Acquisition System Market, Segmentation by Application:

Passenger Vehicle

Commercial Vehicle

Companies Profiled:

AVL List

dSPACE

ETAS

Vector Informatik

CSM

HBK

Dewesoft

Racelogic

National Instruments

Intrepid Control Systems

Dewetron

Campbell Scientific

Validyne Engineering

Horiba

Yokogawa

KEYENCE

Jingwei Hengrun

Key Questions Answered:

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

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