

## Report Information

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# Automotive Data Logger Market Research Report—Global Forecast till 2032

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## Description:

### Global Automotive Data Logger Market Overview

Automotive Data Logger Market Size was valued at USD 3.8 Billion in 2022. The Automotive Data Logger Market industry is projected to grow from USD 4.0 Billion in 2023 to USD 6.9 Billion by 2032, exhibiting a compound annual growth rate (CAGR) of 7.00% during the forecast period (2023 - 2032). Increased consumer demand for high-performance and reliable autos, as well as increased sales of high-end luxury vehicles are the key market drivers enhancing the market growth.

Automotive Data Logger Market

**Source: Secondary Research, Primary Research, MRFR Database and Analyst Review**

### Automotive Data Logger Market Trends

- The increasing complexity of electronic architecture in modern vehicles drives market growth**

The increasingly complex electronic architecture in modern vehicles is driving the market CAGR for Automotive Data Logger. Modern automobiles are now outfitted with a plethora of sensors that improve the driving experience, aid in efficient fuel consumption, reduce accidents/mishaps that result in severe injuries/deaths, and provide a variety of other benefits that are embedded with advanced software solutions enabling predictive maintenance, automated driving assistance systems, vehicle monitoring, in-vehicle connectivity (via CAN), navigation system, parking assistance, and many more. These trends are changing away from the traditional mechanical and electrical design approach and towards the future-proof connected automotive experience.

Furthermore, the growing demand for integrated systems to connect and control vehicles via smartphones, advanced infotainment systems, stringent government telematics policies, and increased adoption from original equipment manufacturers (OEMs) are some of the other factors driving demand for automotive data logger solutions. Thus, during the study period, the more complicated electrical architecture in current automobiles is likely to boost the growth of the automotive data logger market.

In addition, Klas' TRX D8 in-car storage and computation system is a ruggedized device intended specifically for logging the large amounts of data produced during autonomous vehicle drive testing. Furthermore, with the rise of self-driving cars, the UK government and technology businesses have spent \$520 million in R&D and testing of connected and self-driving vehicles in 2020. Similarly, the United States government is developing a national policy for self-driving cars and has pledged to investing \$4 billion over the next ten years to speed the development and deployment of safe vehicle automation through real-world pilot projects.

### Automotive Data Logger Market Segment Insights

#### Automotive Data Logger Based on channel Insights

The Automotive Data Logger Market segmentation, based on channel includes CAN & CAN FD, LIN, FlexRay, Ethernet. In 2022, the CAN & CAN FD segment dominated the market. CAN is a serial networking technology designed for embedded systems such as automotive vehicles. With a data transfer speed of up to 1 megabit per second, it provides quick connectivity between microcontrollers to satisfy real-time requirements. CAN and CAN FD allow automobile OEMs and consumers to gather and retrieve data logs from their vehicles for subsequent use.

## Automotive Data Logger Channel Type Insights

The Automotive Data Logger Market is divided into channel types such as USB, SD card, Bluetooth/Wi-Fi, and cellular modem. Cellular modems had a significant market share. Cellular modems can be set in a variety of ways once connected to a device, such as a laptop. To visit the home page, one frequent option is to use the dedicated IP address. This page is password protected for your security. Several parameters can be altered at this point. These settings control how the modem works, network security, power options, the number of devices that can connect, which band to utilise, and personalisation.

### Figure 1: Automotive Data Logger Market, by Channel Type, 2022 & 2032 (USD Billion)

Automotive Data Logger Market, by Channel Type, 2022 & 2032

Source: Secondary Research, Primary Research, MRFR Database and Analyst Review

## Automotive Data Logger Application Insights

The Automotive Data Logger Market segmentation, based on application, includes on-board diagnostics, ADAS & safety, fleet management, automotive insurance. Fleet management dominated the market. Fleet management is an administrative technique that allows businesses to organise and coordinate work vehicles with the goal of increasing efficiency, lowering expenses, and complying with government laws. While vehicle tracking is the most typical application, fleet management also includes monitoring and documenting mechanical diagnostics and driver behaviour.

## Automotive Data Logger End-Market Insights

The Automotive Data Logger Market segmentation, based on end-market, includes OEMs, service stations, regulatory bodies. The category of regulatory bodies will grow tremendously because of the industry's priority to manufacture self-driving cars and environment-friendly vehicles. Therefore, the older regulation needs to be updated and many new laws should be created. So, for this, the governing bodies need to understand the working of the latest vehicles properly, and for that data, loggers are broadly utilized at the test centers of regulatory bodies.

## Automotive Data Logger Regional Insights

By region, the study provides the market insights into North America, Europe, Asia-Pacific and Rest of the World. Over the projection period, the North American data logger market accounted for the highest revenue share compared to other regional markets. The growing popularity of the logistics industry in the United States is encouraging service providers to increase the quality of their offerings in order to get a competitive advantage over other market participants. The increased rate of automation adoption in sectors in the United States is predicted to drive demand for data logger services.

Further, the major countries studied in the market report are The US, Canada, Germany, France, the UK, Italy, Spain, China, Japan, India, Australia, South Korea, and Brazil.

### Figure 2: AUTOMOTIVE DATA LOGGER MARKET SHARE BY REGION 2022 (USD Billion)

AUTOMOTIVE DATA LOGGER MARKET SHARE BY REGION 2022

Source: Secondary Research, Primary Research, MRFR Database and Analyst Review

Europe's Automotive Data Logger Market accounts for the second-largest market share because of the extraordinarily high resumption of investments and manufacturing processes in the automotive sector. Further, the German Automotive Data Logger Market held the largest market share, and the UK Automotive Data Logger Market was the fastest-growing market in the European region.

The Asia-Pacific Automotive Data Logger Market is expected to grow at the fastest CAGR from 2023 to 2032. This is due to the rise in the awareness regarding the advantages of data generated by the machines in the region. Moreover, China's Automotive Data Logger Market held the largest market share, and the Indian Automotive Data Logger Market was the fastest-growing market in the Asia-Pacific region.

## Automotive Data Logger Key Market Players & Competitive Insights

Leading market players are investing heavily in R&D to expand their product lines, which will help the Automotive Data Logger Market, grow even more. Market participants are also undertaking a variety of strategic activities to expand their global footprint, with important market developments including new product launches, contractual agreements, mergers and acquisitions, higher investments, and collaboration with other organizations. To expand and survive in a more competitive and rising market climate, Automotive Data logger industry must offer cost-effective items.

Manufacturing locally to minimize operational costs is one of the key business tactics used by manufacturers in the global Automotive Data Logger industry to benefit clients and increase the market sector. In recent years, the Automotive Data Logger industry has offered some of the most significant advantages to medicine. Major players in the Automotive Data Logger Market, including

National Instruments (the U.S.), TI Tech Computertechnik AG (Austria), Xilinx (the U.S.), Intrepid Control Systems, Inc. (the U.S.), Dewesoft d.o.o. (Slovenia) and others, are attempting to increase market demand by investing in R&D operations.

Vector Informatik creates software tools and components for electronic system networking based on serial bus systems such as CAN, LIN, FlexRay, MOST, Ethernet, AFDX, ARINC 429,[5] and SAE J1708, as well as CAN-based protocols such as SAE J1939, SAE J1587, ISO 11783, NMEA 2000, ARINC 825,[5] CANaerospace,[5] CANopen and others. Vector Informatik GmbH has its headquarters in Stuttgart, Germany. Braunschweig, Munich, Hamburg, and Regensburg are among the subsidiaries, as are foreign subsidiaries in Brazil, China, France, Italy, England, India, Japan, South Korea, Austria, Sweden, and the United States. Vector Informatik also includes Vector Consulting Services GmbH, a consulting firm specialising in technical product development optimisation. These companies are together known as the Vector Group. In March 2022, Vector Informatik bought 100% of the assets of Gimpel Software LLC, a manufacturer of static analysis software based in the United States.

Harman International Industries, also known as Harman (stylised in all-uppercase as HARMAN), is an American audio electronics manufacturer. The company has been an autonomous subsidiary of Samsung Electronics since 2017. Harman is headquartered in Stamford, Connecticut, and has significant operations in the Americas, Europe, and Asia. AKG, AMX, Arcam, Bang & Olufsen Automotive, Becker, BSS Audio, Crown, dbx, Harman Kardon, Infinity, JBL, Lexicon, Mark Levinson, Martin, Revel, Soundcraft, and Studer are among the brands that Harman sells. In March 2021, TowerSec, an automotive cyber-security firm, was acquired by Harman. This acquisition expanded Harman's capabilities in the emerging subject of vehicle cyber-security. This was demonstrated by the later unveiling of the company's '5+1 security architecture', which included TowerSec's 'ECU shield' technology.

#### **Key Companies in the Automotive Data Logger market include**

- National Instruments (the U.S.)
- TI Tech Computertechnik AG (Austria)
- Xilinx (the U.S.)
- Intrepid Control Systems, Inc. (the U.S.)
- Dewesoft d.o.o. (Slovenia)
- Robert Bosch GmbH (Germany)
- Delphi Technologies (the U.K.)
- Vector Informatik GmbH (Germany)
- Continental Automotive GmbH (Germany)
- Harman International (the U.S.)
- Racelogic (the U.K)

#### **Automotive Data Logger Industry Developments**

**In July 2019** Cryopak added the Contactless Temperature Logger (CTL) to its existing array of cold chain data loggers. The CTL has a plug-and-play design that collects temperature data and displays it in PDF, Excel, and Raw data formats. Furthermore, the data can be transferred using a mobile app that is compatible with the Android, IOS, and Windows platforms.

**In September 2019** Testo has created the testo 160 series of data loggers for building climate monitoring. The collection has five models, each with a tiny size and deco-covers. Continuously, precisely, and automatically, it measures, monitors, and documents temperature, humidity, light intensity, UV radiation, CO2 content, and air pressure.

**In March 2019** Vector Informatik GmbH released Indigo 6. It demonstrates how to create and test diagnostic sequences for Microsoft Visual Studio. Its benefits include easy modification, testing of diagnostic sequences, and powerful debugging support.

#### **Automotive Data Logger Market Segmentation**

##### **Automotive Data Logger Market Based on Channel Outlook**

- CAN & CAN FD,
- LIN
- FlexRay

- Ethernet

#### **Automotive Data Logger Market by Connection Type Outlook**

- USB
- SD Card
- Bluetooth/Wi-Fi
- Cellular Modem

#### **Automotive Data Logger Market by Application Outlook**

- On-Board Diagnostics
- ADAS & Safety
- Fleet Management
- Automotive Insurance

#### **Automotive Data Logger Market by End-Market Outlook**

- OEMs
- Service Stations
- Regulatory Bodies

#### **Automotive Data Logger Regional Outlook**

- North America
  - US
  - Canada
- Europe
  - Germany
  - France
  - UK
  - Italy
  - Spain
  - Rest of Europe
- Asia-Pacific
  - China
  - Japan
  - India
  - Australia
  - South Korea
  - Australia
  - Rest of Asia-Pacific
- Rest of the World

- Middle East
- Africa
- Latin America

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