

Global On Board Diagnostics Device Market Research Report 2026(Status and Outlook)

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Abstracts

The 2025 U.S. tariff policies introduce profound uncertainty into the global economic landscape. This report critically examines the implications of recent tariff adjustments and international strategic countermeasures on On Board Diagnostics Device competitive dynamics, regional economic interdependencies, and supply chain reconfigurations. On-Board Diagnostics (OBD) Devices are plug-in automotive modules that interface with the vehicle's OBD-II port to provide fault-code diagnostics, telematics data, engine monitoring, GPS tracking, driver-behavior analytics, emissions reporting and connectivity for consumer, fleet and insurance applications. In 2024, the global average price is approximately US\$18.6 per unit, with total shipments of around 126 million devices. Gross margins usually range from 22%-40%, depending on chipset (Bluetooth/Wi-Fi/LTE), GNSS integration, data services and telematics software. The supply chain includes upstream chipsets, GNSS receivers, connectivity modules and OBD interface ICs; midstream manufacturers integrate firmware, diagnostics protocols (CAN, KWP2000, ISO 15765), telematics functions and certification; downstream customers include consumers, fleets, insurance companies (UBI), automakers and IoT mobility platforms. According to our research, the global market for medical devices is estimated at US\$ 603 billion in the year 2023, and will be growing at a CAGR of 5% during next six years. The global healthcare spending contributes to occupy 10% of the global GDP and is continuously rising in recent years due to the increasing health needs of the aging population, the growing prevalence of chronic and infectious diseases and the expansion of emerging markets. The medical devices market plays a significant role in the healthcare industry. The market is driven by several factors, including the increasing demand for advanced healthcare services globally, advancements in medical technology, growing geriatric population, rising healthcare expenditure, and increasing awareness about early disease diagnosis and treatment.

The global On Board Diagnostics Device market size was estimated at USD 2347.0 million in 2025 and is projected to grow at a compound annual growth rate (CAGR) of 9.70% during the forecast period.

This report offers a comprehensive and in-depth analysis of the global On Board Diagnostics Device market, covering all critical facets from a broad macroeconomic overview to detailed micro-level insights. It examines market size, competitive landscape, emerging development trends, niche segments, key drivers and challenges, as well as conducts SWOT and value chain analyses.

The insights provided enable readers to understand the competitive dynamics within the industry and formulate effective strategies to enhance profitability and market positioning. Additionally, the report presents a clear framework for evaluating the current status and future outlook of business organizations operating in this sector.

A significant focus of this report lies in the competitive landscape of the global On Board Diagnostics Device market. It offers detailed profiles of major players, including their market shares, performance metrics, product portfolios, and operational status. This enables stakeholders to identify leading competitors and gain a nuanced understanding of market rivalry and structure.

In summary, this report serves as an essential resource for industry participants, investors, researchers, consultants, and business strategists, as well as anyone planning to enter or expand their presence in the On Board Diagnostics Device market.

Global On Board Diagnostics Device Market: Market Segmentation Analysis

This research report provides a detailed segmentation of the market by region (country), key manufacturers, product type, and application. Market segmentation divides the overall market into distinct subsets based on factors such as product categories, end-user industries, geographic locations, and other relevant criteria.

A clear understanding of these market segments enables decision-makers to tailor their product development, sales, and marketing strategies more effectively to meet the unique needs of each segment. Leveraging market segmentation insights can significantly enhance targeted approaches, optimize resource allocation, and accelerate product innovation cycles by aligning offerings with the specific demands of diverse customer groups.

Key Company

Detroit Diesel Corporation
Zubie
Innova Electronics
AVL DiTEST GmbH
Robert Bosch GmbH
Vector Informatik GmbH
Denso Corporation
Autel Intelligent Technology
ERM Electronic Systems
Verizon Communications
Bosch Automotive Diagnostics
Actia Automotive Diagnostics

Market Segmentation (by Type)

Hand-held Tools
Mobile-based Tools
Pc-based Tools
Others

Market Segmentation (by Application)

Passenger Cars
Light Commercial Vehicles
Heavy Commercial Vehicles
Electric Vehicle

Geographic Segmentation

North America (USA, Canada, Mexico)
Europe (Germany, UK, France, Russia, Italy, Rest of Europe)
Asia-Pacific (China, Japan, South Korea, India, Southeast Asia, Rest of Asia-Pacific)
South America (Brazil, Argentina, Columbia, Rest of South America)
The Middle East and Africa (Saudi Arabia, UAE, Egypt, Nigeria, South Africa, Rest of MEA)

Key Benefits of This Market Research:

Industry drivers, restraints, and opportunities covered in the study
Neutral perspective on the market performance
Recent industry trends and developments
Competitive landscape & strategies of key players
Potential & niche segments and regions exhibiting promising growth covered
Historical, current, and projected market size, in terms of value
In-depth analysis of the On Board Diagnostics Device Market
Overview of the regional outlook of the On Board Diagnostics Device Market:

Customization of the Report

In case of any queries or customization requirements, please connect with our sales team, who will ensure that your requirements are met.

Chapter Outline

Chapter 1 mainly introduces the statistical scope of the report, market division standards, and market research methods.

Chapter 2 is an executive summary of different market segments (by region, product type, application, etc), including the market size of each market segment, future development potential, and so on. It offers a high-level view of the current state of the On Board Diagnostics Device Market and its likely evolution in the short to mid-term, and long term.

Chapter 3 makes a detailed analysis of the market's competitive landscape of the market and provides the market share, capacity, output, price, latest development plan, merger, and acquisition information of the main manufacturers in the market.

Chapter 4 is the analysis of the whole market industrial chain, including the upstream and downstream of the industry, as well as Porter's five forces analysis.

Chapter 5 introduces the latest developments of the market, the driving factors and restrictive factors of the market, the challenges and risks faced by manufacturers in the industry, and the analysis of relevant policies in the industry.

Chapter 6 provides the analysis of various market segments according to product types, covering the market size and development potential of each market segment, to help

readers find the blue ocean market in different market segments.

Chapter 7 provides the analysis of various market segments according to application, covering the market size and development potential of each market segment, to help readers find the blue ocean market in different downstream markets.

Chapter 8 provides a quantitative analysis of the market size and development potential of each region and its main countries and introduces the market development, future development prospects, market space, and capacity of each country in the world.

Chapter 9 shares the main producing countries of On Board Diagnostics Device, their output value, profit level, regional supply, production capacity layout, etc. from the supply side.

Chapter 10 introduces the basic situation of the main companies in the market in detail, including product sales revenue, sales volume, price, gross profit margin, market share, product introduction, recent development, etc.

Chapter 11 provides a quantitative analysis of the market size and development potential of each region in the next five years.

Chapter 12 provides a quantitative analysis of the market size and development potential of each market segment in the next five years.

Chapter 13 is the main points and conclusions of the report.

Key Reasons to Buy this Report:

Access to date statistics compiled by our researchers. These provide you with historical and forecast data, which is analyzed to tell you why your market is set to change

This enables you to anticipate market changes to remain ahead of your competitors

You will be able to copy data from the Excel spreadsheet straight into your marketing plans, business presentations, or other strategic documents

The concise analysis, clear graph, and table format will enable you to pinpoint the information you require quickly

Provision of market value data for each segment and sub-segment

Indicates the region and segment that is expected to witness the fastest growth as well as to dominate the market

Analysis by geography highlighting the consumption of the product/service in the region

as well as indicating the factors that are affecting the market within each region

Competitive landscape which incorporates the market ranking of the major players, along with new service/product launches, partnerships, business expansions, and acquisitions in the past five years of companies profiled

Extensive company profiles comprising of company overview, company insights, product benchmarking, and SWOT analysis for the major market players

The current as well as the future market outlook of the industry concerning recent developments which involve growth opportunities and drivers as well as challenges and restraints of both emerging as well as developed regions

Includes in-depth analysis of the market from various perspectives through Porter's five forces analysis

Provides insight into the market through Value Chain

Market dynamics scenario, along with growth opportunities of the market in the years to come

6-month post-sales analyst support

Customization of the Report

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Contents

1 RESEARCH METHODOLOGY AND STATISTICAL SCOPE

1.1 Market Definition and Statistical Scope of On Board Diagnostics Device

1.2 Key Market Segments

1.2.1 On Board Diagnostics Device Segment by Type

1.2.2 On Board Diagnostics Device Segment by Application

1.3 Methodology & Sources of Information

1.3.1 Research Methodology

1.3.2 Research Process

1.3.3 Market Breakdown and Data Triangulation

1.3.4 Base Year

1.3.5 Report Assumptions & Caveats

2 ON BOARD DIAGNOSTICS DEVICE MARKET OVERVIEW

2.1 Global Market Overview

2.1.1 Global On Board Diagnostics Device Market Size (M USD) Estimates and Forecasts (2020-2035)

2.1.2 Global On Board Diagnostics Device Sales Estimates and Forecasts (2020-2035)

2.2 Market Segment Executive Summary

2.3 Global Market Size by Region

3 ON BOARD DIAGNOSTICS DEVICE MARKET COMPETITIVE LANDSCAPE

3.1 Company Assessment Quadrant

3.2 Global On Board Diagnostics Device Product Life Cycle

3.3 Global On Board Diagnostics Device Sales by Manufacturers (2020-2025)

3.4 Global On Board Diagnostics Device Revenue Market Share by Manufacturers (2020-2025)

3.5 On Board Diagnostics Device Market Share by Company Type (Tier 1, Tier 2, and Tier 3)

3.6 Global On Board Diagnostics Device Average Price by Manufacturers (2020-2025)

3.7 Manufacturers? Manufacturing Sites, Areas Served, and Product Types

3.8 On Board Diagnostics Device Market Competitive Situation and Trends

3.8.1 On Board Diagnostics Device Market Concentration Rate

3.8.2 Global 5 and 10 Largest On Board Diagnostics Device Players Market Share by

Revenue

3.8.3 Mergers & Acquisitions, Expansion

4 ON BOARD DIAGNOSTICS DEVICE INDUSTRY CHAIN ANALYSIS

4.1 On Board Diagnostics Device Industry Chain Analysis

4.2 Market Overview of Key Raw Materials

4.3 Midstream Market Analysis

4.4 Downstream Customer Analysis

5 THE DEVELOPMENT AND DYNAMICS OF ON BOARD DIAGNOSTICS DEVICE MARKET

5.1 Key Development Trends

5.2 Driving Factors

5.3 Market Challenges

5.4 Industry News

5.4.1 New Product Developments

5.4.2 Mergers & Acquisitions

5.4.3 Expansions

5.4.4 Collaboration/Supply Contracts

5.5 PEST Analysis

5.5.1 Industry Policies Analysis

5.5.2 Economic Environment Analysis

5.5.3 Social Environment Analysis

5.5.4 Technological Environment Analysis

5.6 Global On Board Diagnostics Device Market Porter's Five Forces Analysis

5.6.1 Global Trade Frictions

5.6.2 U.S. Tariff Policy ? April 2025

5.6.3 Global Trade Frictions and Their Impacts to On Board Diagnostics Device Market

5.7 ESG Ratings of Leading Companies

6 ON BOARD DIAGNOSTICS DEVICE MARKET SEGMENTATION BY TYPE

6.1 Evaluation Matrix of Segment Market Development Potential (Type)

6.2 Global On Board Diagnostics Device Sales Market Share by Type (2020-2025)

6.3 Global On Board Diagnostics Device Market Size by Type (2020-2025)

6.4 Global On Board Diagnostics Device Price by Type (2020-2025)

7 ON BOARD DIAGNOSTICS DEVICE MARKET SEGMENTATION BY APPLICATION

- 7.1 Evaluation Matrix of Segment Market Development Potential (Application)
- 7.2 Global On Board Diagnostics Device Market Sales by Application (2020-2025)
- 7.3 Global On Board Diagnostics Device Market Size (M USD) by Application (2020-2025)
- 7.4 Global On Board Diagnostics Device Sales Growth Rate by Application (2020-2025)

8 ON BOARD DIAGNOSTICS DEVICE MARKET SALES BY REGION

- 8.1 Global On Board Diagnostics Device Sales by Region
 - 8.1.1 Global On Board Diagnostics Device Sales by Region
 - 8.1.2 Global On Board Diagnostics Device Sales Market Share by Region
- 8.2 Global On Board Diagnostics Device Market Size by Region
 - 8.2.1 Global On Board Diagnostics Device Market Size by Region
 - 8.2.2 Global On Board Diagnostics Device Market Size by Region
- 8.3 North America
 - 8.3.1 North America On Board Diagnostics Device Sales by Country
 - 8.3.2 North America On Board Diagnostics Device Market Size by Country
 - 8.3.3 U.S. Market Overview
 - 8.3.4 Canada Market Overview
 - 8.3.5 Mexico Market Overview
- 8.4 Europe
 - 8.4.1 Europe On Board Diagnostics Device Sales by Country
 - 8.4.2 Europe On Board Diagnostics Device Market Size by Country
 - 8.4.3 Germany Market Overview
 - 8.4.4 France Market Overview
 - 8.4.5 U.K. Market Overview
 - 8.4.6 Italy Market Overview
 - 8.4.7 Spain Market Overview
- 8.5 Asia Pacific
 - 8.5.1 Asia Pacific On Board Diagnostics Device Sales by Region
 - 8.5.2 Asia Pacific On Board Diagnostics Device Market Size by Region
 - 8.5.3 China Market Overview
 - 8.5.4 Japan Market Overview
 - 8.5.5 South Korea Market Overview
 - 8.5.6 India Market Overview
 - 8.5.7 Southeast Asia Market Overview

8.6 South America

8.6.1 South America On Board Diagnostics Device Sales by Country

8.6.2 South America On Board Diagnostics Device Market Size by Country

8.6.3 Brazil Market Overview

8.6.4 Argentina Market Overview

8.6.5 Columbia Market Overview

8.7 Middle East and Africa

8.7.1 Middle East and Africa On Board Diagnostics Device Sales by Region

8.7.2 Middle East and Africa On Board Diagnostics Device Market Size by Region

8.7.3 Saudi Arabia Market Overview

8.7.4 UAE Market Overview

8.7.5 Egypt Market Overview

8.7.6 Nigeria Market Overview

8.7.7 South Africa Market Overview

9 ON BOARD DIAGNOSTICS DEVICE MARKET PRODUCTION BY REGION

9.1 Global Production of On Board Diagnostics Device by Region(2020-2025)

9.2 Global On Board Diagnostics Device Revenue Market Share by Region (2020-2025)

9.3 Global On Board Diagnostics Device Production, Revenue, Price and Gross Margin (2020-2025)

9.4 North America On Board Diagnostics Device Production

9.4.1 North America On Board Diagnostics Device Production Growth Rate (2020-2025)

9.4.2 North America On Board Diagnostics Device Production, Revenue, Price and Gross Margin (2020-2025)

9.5 Europe On Board Diagnostics Device Production

9.5.1 Europe On Board Diagnostics Device Production Growth Rate (2020-2025)

9.5.2 Europe On Board Diagnostics Device Production, Revenue, Price and Gross Margin (2020-2025)

9.6 Japan On Board Diagnostics Device Production (2020-2025)

9.6.1 Japan On Board Diagnostics Device Production Growth Rate (2020-2025)

9.6.2 Japan On Board Diagnostics Device Production, Revenue, Price and Gross Margin (2020-2025)

9.7 China On Board Diagnostics Device Production (2020-2025)

9.7.1 China On Board Diagnostics Device Production Growth Rate (2020-2025)

9.7.2 China On Board Diagnostics Device Production, Revenue, Price and Gross Margin (2020-2025)

10 KEY COMPANIES PROFILE

10.1 Detroit Diesel Corporation

10.1.1 Detroit Diesel Corporation Basic Information

10.1.2 Detroit Diesel Corporation On Board Diagnostics Device Product Overview

10.1.3 Detroit Diesel Corporation On Board Diagnostics Device Product Market

Performance

10.1.4 Detroit Diesel Corporation Business Overview

10.1.5 Detroit Diesel Corporation SWOT Analysis

10.1.6 Detroit Diesel Corporation Recent Developments

10.2 Zubie

10.2.1 Zubie Basic Information

10.2.2 Zubie On Board Diagnostics Device Product Overview

10.2.3 Zubie On Board Diagnostics Device Product Market Performance

10.2.4 Zubie Business Overview

10.2.5 Zubie SWOT Analysis

10.2.6 Zubie Recent Developments

10.3 Innova Electronics

10.3.1 Innova Electronics Basic Information

10.3.2 Innova Electronics On Board Diagnostics Device Product Overview

10.3.3 Innova Electronics On Board Diagnostics Device Product Market Performance

10.3.4 Innova Electronics Business Overview

10.3.5 Innova Electronics SWOT Analysis

10.3.6 Innova Electronics Recent Developments

10.4 AVL DiTEST GmbH

10.4.1 AVL DiTEST GmbH Basic Information

10.4.2 AVL DiTEST GmbH On Board Diagnostics Device Product Overview

10.4.3 AVL DiTEST GmbH On Board Diagnostics Device Product Market Performance

10.4.4 AVL DiTEST GmbH Business Overview

10.4.5 AVL DiTEST GmbH Recent Developments

10.5 Robert Bosch GmbH

10.5.1 Robert Bosch GmbH Basic Information

10.5.2 Robert Bosch GmbH On Board Diagnostics Device Product Overview

10.5.3 Robert Bosch GmbH On Board Diagnostics Device Product Market

Performance

10.5.4 Robert Bosch GmbH Business Overview

10.5.5 Robert Bosch GmbH Recent Developments

10.6 Vector Informatik GmbH

10.6.1 Vector Informatik GmbH Basic Information

- 10.6.2 Vector Informatik GmbH On Board Diagnostics Device Product Overview
- 10.6.3 Vector Informatik GmbH On Board Diagnostics Device Product Market Performance
- 10.6.4 Vector Informatik GmbH Business Overview
- 10.6.5 Vector Informatik GmbH Recent Developments
- 10.7 Denso Corporation
 - 10.7.1 Denso Corporation Basic Information
 - 10.7.2 Denso Corporation On Board Diagnostics Device Product Overview
 - 10.7.3 Denso Corporation On Board Diagnostics Device Product Market Performance
 - 10.7.4 Denso Corporation Business Overview
 - 10.7.5 Denso Corporation Recent Developments
- 10.8 Autel Intelligent Technology
 - 10.8.1 Autel Intelligent Technology Basic Information
 - 10.8.2 Autel Intelligent Technology On Board Diagnostics Device Product Overview
 - 10.8.3 Autel Intelligent Technology On Board Diagnostics Device Product Market Performance
 - 10.8.4 Autel Intelligent Technology Business Overview
 - 10.8.5 Autel Intelligent Technology Recent Developments
- 10.9 ERM Electronic Systems
 - 10.9.1 ERM Electronic Systems Basic Information
 - 10.9.2 ERM Electronic Systems On Board Diagnostics Device Product Overview
 - 10.9.3 ERM Electronic Systems On Board Diagnostics Device Product Market Performance
 - 10.9.4 ERM Electronic Systems Business Overview
 - 10.9.5 ERM Electronic Systems Recent Developments
- 10.10 Verizon Communications
 - 10.10.1 Verizon Communications Basic Information
 - 10.10.2 Verizon Communications On Board Diagnostics Device Product Overview
 - 10.10.3 Verizon Communications On Board Diagnostics Device Product Market Performance
 - 10.10.4 Verizon Communications Business Overview
 - 10.10.5 Verizon Communications Recent Developments
- 10.11 Bosch Automotive Diagnostics
 - 10.11.1 Bosch Automotive Diagnostics Basic Information
 - 10.11.2 Bosch Automotive Diagnostics On Board Diagnostics Device Product Overview
 - 10.11.3 Bosch Automotive Diagnostics On Board Diagnostics Device Product Market Performance
 - 10.11.4 Bosch Automotive Diagnostics Business Overview

- 10.11.5 Bosch Automotive Diagnostics Recent Developments
- 10.12 Actia Automotive Diagnostics
 - 10.12.1 Actia Automotive Diagnostics Basic Information
 - 10.12.2 Actia Automotive Diagnostics On Board Diagnostics Device Product Overview
 - 10.12.3 Actia Automotive Diagnostics On Board Diagnostics Device Product Market Performance
 - 10.12.4 Actia Automotive Diagnostics Business Overview
 - 10.12.5 Actia Automotive Diagnostics Recent Developments

11 ON BOARD DIAGNOSTICS DEVICE MARKET FORECAST BY REGION

- 11.1 Global On Board Diagnostics Device Market Size Forecast
- 11.2 Global On Board Diagnostics Device Market Forecast by Region
 - 11.2.1 North America Market Size Forecast by Country
 - 11.2.2 Europe On Board Diagnostics Device Market Size Forecast by Country
 - 11.2.3 Asia Pacific On Board Diagnostics Device Market Size Forecast by Region
 - 11.2.4 South America On Board Diagnostics Device Market Size Forecast by Country
 - 11.2.5 Middle East and Africa Forecasted Sales of On Board Diagnostics Device by Country

12 FORECAST MARKET BY TYPE AND BY APPLICATION (2026-2035)

- 12.1 Global On Board Diagnostics Device Market Forecast by Type (2026-2035)
 - 12.1.1 Global Forecasted Sales of On Board Diagnostics Device by Type (2026-2035)
 - 12.1.2 Global On Board Diagnostics Device Market Size Forecast by Type (2026-2035)
 - 12.1.3 Global Forecasted Price of On Board Diagnostics Device by Type (2026-2035)
- 12.2 Global On Board Diagnostics Device Market Forecast by Application (2026-2035)
 - 12.2.1 Global On Board Diagnostics Device Sales (K Units) Forecast by Application
 - 12.2.2 Global On Board Diagnostics Device Market Size (M USD) Forecast by Application (2026-2035)

13 CONCLUSION AND KEY FINDINGS

List Of Tables

LIST OF TABLES

Table 1. Introduction of the Type

Table 2. Introduction of the Application

Table 3. Global On Board Diagnostics Device Market Size by Type (M USD)

Table 4. Global On Board Diagnostics Device Market Size by Application

Table 5. On Board Diagnostics Device Market Size Comparison by Region (M USD)

Table 6. Global On Board Diagnostics Device Sales (K Units) by Manufacturers
(2020-2025)

Table 7. Global On Board Diagnostics Device Sales Market Share by Manufacturers
(2020-2025)

Table 8. Global On Board Diagnostics Device Revenue (M USD) by Manufacturers
(2020-2025)

Table 9. Global On Board Diagnostics Device Revenue Share by Manufacturers
(2020-2025)

Table 10. Company Type (Tier 1, Tier 2, and Tier 3) & (based on the Revenue in On
Board Diagnostics Device as of 2025)

Table 11. Global Market On Board Diagnostics Device Average Price (USD/Unit) of Key
Manufacturers (2020-2025)

Table 12. Manufacturers? Manufacturing Sites, Areas Served

Table 13. Manufacturers? Product Type

Table 14. Global On Board Diagnostics Device Manufacturers Market Concentration
Ratio (CR5 and HHI)

Table 15. Mergers & Acquisitions, Expansion Plans

Table 16. Market Overview of Key Raw Materials

Table 17. Midstream Market Analysis

Table 18. Downstream Customer Analysis

Table 19. Key Development Trends

Table 20. Driving Factors

Table 21. On Board Diagnostics Device Market Challenges

Table 22. Goldman Sachs' forecast real GDP growth rate for 2025-2026

Table 23. S&P Global ' Forecast Real GDP Growth Rate For 2025-2027

Table 24. World Bank ' Forecast Real GDP Growth Rate For 2025-2026

Table 25. The Tariff Rates Imposed by the United States on Major Commodity Trading
Countries

Table 26. Global On Board Diagnostics Device Sales by Type (K Units)

Table 27. Global On Board Diagnostics Device Market Size by Type (M USD)

Table 28. Global On Board Diagnostics Device Sales (K Units) by Type (2020-2025)

Table 29. Global On Board Diagnostics Device Sales Market Share by Type (2020-2025)

Table 30. Global On Board Diagnostics Device Market Size (M USD) by Type (2020-2025)

Table 31. Global On Board Diagnostics Device Market Share by Type (2020-2025)

Table 32. Global On Board Diagnostics Device Price (USD/Unit) by Type (2020-2025)

Table 33. Global On Board Diagnostics Device Sales (K Units) by Application

Table 34. Global On Board Diagnostics Device Market Size by Application

Table 35. Global On Board Diagnostics Device Sales by Application (2020-2025) & (K Units)

Table 36. Global On Board Diagnostics Device Sales Market Share by Application (2020-2025)

Table 37. Global On Board Diagnostics Device Market Size by Application (2020-2025) & (M USD)

Table 38. Global On Board Diagnostics Device Market Share by Application (2020-2025)

Table 39. Global On Board Diagnostics Device Sales Growth Rate by Application (2020-2025)

Table 40. Global On Board Diagnostics Device Sales by Region (2020-2025) & (K Units)

Table 41. Global On Board Diagnostics Device Sales Market Share by Region (2020-2025)

Table 42. Global On Board Diagnostics Device Market Size by Region (2020-2025) & (M USD)

Table 43. Global On Board Diagnostics Device Market Size by Region (2020-2025)

Table 44. North America On Board Diagnostics Device Sales by Country (2020-2025) & (K Units)

Table 45. North America On Board Diagnostics Device Market Size by Country (2020-2025) & (M USD)

Table 46. Europe On Board Diagnostics Device Sales by Country (2020-2025) & (K Units)

Table 47. Europe On Board Diagnostics Device Market Size by Country (2020-2025) & (M USD)

Table 48. Asia Pacific On Board Diagnostics Device Sales by Region (2020-2025) & (K Units)

Table 49. Asia Pacific On Board Diagnostics Device Market Size by Region (2020-2025) & (M USD)

Table 50. South America On Board Diagnostics Device Sales by Country (2020-2025) &

(K Units)

Table 51. South America On Board Diagnostics Device Market Size by Country (2020-2025) & (M USD)

Table 52. Middle East and Africa On Board Diagnostics Device Sales by Region (2020-2025) & (K Units)

Table 53. Middle East and Africa On Board Diagnostics Device Market Size by Region (2020-2025) & (M USD)

Table 54. Global On Board Diagnostics Device Production (K Units) by Region(2020-2025)

Table 55. Global On Board Diagnostics Device Revenue (US\$ Million) by Region (2020-2025)

Table 56. Global On Board Diagnostics Device Revenue Market Share by Region (2020-2025)

Table 57. Global On Board Diagnostics Device Production (K Units), Revenue (US\$ Million), Price (USD/Unit) and Gross Margin (2020-2025)

Table 58. North America On Board Diagnostics Device Production (K Units), Revenue (US\$ Million), Price (USD/Unit) and Gross Margin (2020-2025)

Table 59. Europe On Board Diagnostics Device Production (K Units), Revenue (US\$ Million), Price (USD/Unit) and Gross Margin (2020-2025)

Table 60. Japan On Board Diagnostics Device Production (K Units), Revenue (US\$ Million), Price (USD/Unit) and Gross Margin (2020-2025)

Table 61. China On Board Diagnostics Device Production (K Units), Revenue (US\$ Million), Price (USD/Unit) and Gross Margin (2020-2025)

Table 62. Detroit Diesel Corporation Basic Information

Table 63. Detroit Diesel Corporation On Board Diagnostics Device Product Overview

Table 64. Detroit Diesel Corporation On Board Diagnostics Device Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)

Table 65. Detroit Diesel Corporation Business Overview

Table 66. Detroit Diesel Corporation SWOT Analysis

Table 67. Detroit Diesel Corporation Recent Developments

Table 68. Zubie Basic Information

Table 69. Zubie On Board Diagnostics Device Product Overview

Table 70. Zubie On Board Diagnostics Device Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)

Table 71. Zubie Business Overview

Table 72. Zubie SWOT Analysis

Table 73. Zubie Recent Developments

Table 74. Innova Electronics Basic Information

Table 75. Innova Electronics On Board Diagnostics Device Product Overview

Table 76. Innova Electronics On Board Diagnostics Device Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)
Table 77. Innova Electronics Business Overview
Table 78. Innova Electronics SWOT Analysis
Table 79. Innova Electronics Recent Developments
Table 80. AVL DiTEST GmbH Basic Information
Table 81. AVL DiTEST GmbH On Board Diagnostics Device Product Overview
Table 82. AVL DiTEST GmbH On Board Diagnostics Device Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)
Table 83. AVL DiTEST GmbH Business Overview
Table 84. AVL DiTEST GmbH Recent Developments
Table 85. Robert Bosch GmbH Basic Information
Table 86. Robert Bosch GmbH On Board Diagnostics Device Product Overview
Table 87. Robert Bosch GmbH On Board Diagnostics Device Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)
Table 88. Robert Bosch GmbH Business Overview
Table 89. Robert Bosch GmbH Recent Developments
Table 90. Vector Informatik GmbH Basic Information
Table 91. Vector Informatik GmbH On Board Diagnostics Device Product Overview
Table 92. Vector Informatik GmbH On Board Diagnostics Device Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)
Table 93. Vector Informatik GmbH Business Overview
Table 94. Vector Informatik GmbH Recent Developments
Table 95. Denso Corporation Basic Information
Table 96. Denso Corporation On Board Diagnostics Device Product Overview
Table 97. Denso Corporation On Board Diagnostics Device Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)
Table 98. Denso Corporation Business Overview
Table 99. Denso Corporation Recent Developments
Table 100. Autel Intelligent Technology Basic Information
Table 101. Autel Intelligent Technology On Board Diagnostics Device Product Overview
Table 102. Autel Intelligent Technology On Board Diagnostics Device Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)
Table 103. Autel Intelligent Technology Business Overview
Table 104. Autel Intelligent Technology Recent Developments
Table 105. ERM Electronic Systems Basic Information
Table 106. ERM Electronic Systems On Board Diagnostics Device Product Overview
Table 107. ERM Electronic Systems On Board Diagnostics Device Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)

Table 108. ERM Electronic Systems Business Overview
Table 109. ERM Electronic Systems Recent Developments
Table 110. Verizon Communications Basic Information
Table 111. Verizon Communications On Board Diagnostics Device Product Overview
Table 112. Verizon Communications On Board Diagnostics Device Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)
Table 113. Verizon Communications Business Overview
Table 114. Verizon Communications Recent Developments
Table 115. Bosch Automotive Diagnostics Basic Information
Table 116. Bosch Automotive Diagnostics On Board Diagnostics Device Product Overview
Table 117. Bosch Automotive Diagnostics On Board Diagnostics Device Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)
Table 118. Bosch Automotive Diagnostics Business Overview
Table 119. Bosch Automotive Diagnostics Recent Developments
Table 120. Actia Automotive Diagnostics Basic Information
Table 121. Actia Automotive Diagnostics On Board Diagnostics Device Product Overview
Table 122. Actia Automotive Diagnostics On Board Diagnostics Device Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)
Table 123. Actia Automotive Diagnostics Business Overview
Table 124. Actia Automotive Diagnostics Recent Developments
Table 125. Global On Board Diagnostics Device Sales Forecast by Region (2026-2035) & (K Units)
Table 126. Global On Board Diagnostics Device Market Size Forecast by Region (2026-2035) & (M USD)
Table 127. North America On Board Diagnostics Device Sales Forecast by Country (2026-2035) & (K Units)
Table 128. North America On Board Diagnostics Device Market Size Forecast by Country (2026-2035) & (M USD)
Table 129. Europe On Board Diagnostics Device Sales Forecast by Country (2026-2035) & (K Units)
Table 130. Europe On Board Diagnostics Device Market Size Forecast by Country (2026-2035) & (M USD)
Table 131. Asia Pacific On Board Diagnostics Device Sales Forecast by Region (2026-2035) & (K Units)
Table 132. Asia Pacific On Board Diagnostics Device Market Size Forecast by Region (2026-2035) & (M USD)
Table 133. South America On Board Diagnostics Device Sales Forecast by Country

(2026-2035) & (K Units)

Table 134. South America On Board Diagnostics Device Market Size Forecast by Country (2026-2035) & (M USD)

Table 135. Middle East and Africa On Board Diagnostics Device Sales Forecast by Country (2026-2035) & (Units)

Table 136. Middle East and Africa On Board Diagnostics Device Market Size Forecast by Country (2026-2035) & (M USD)

Table 137. Global On Board Diagnostics Device Sales Forecast by Type (2026-2035) & (K Units)

Table 138. Global On Board Diagnostics Device Market Size Forecast by Type (2026-2035) & (M USD)

Table 139. Global On Board Diagnostics Device Price Forecast by Type (2026-2035) & (USD/Unit)

Table 140. Global On Board Diagnostics Device Sales (K Units) Forecast by Application (2026-2035)

Table 141. Global On Board Diagnostics Device Market Size Forecast by Application (2026-2035) & (M USD)

List Of Figures

LIST OF FIGURES

- Figure 1. Product Picture of On Board Diagnostics Device
- Figure 2. Data Triangulation
- Figure 3. Key Caveats
- Figure 4. Global On Board Diagnostics Device Market Size (M USD), 2025-2035
- Figure 5. Global On Board Diagnostics Device Market Size (M USD) (2020-2035)
- Figure 6. Global On Board Diagnostics Device Sales (K Units) & (2020-2035)
- Figure 7. Evaluation Matrix of Segment Market Development Potential (Type)
- Figure 8. Evaluation Matrix of Segment Market Development Potential (Application)
- Figure 9. Evaluation Matrix of Regional Market Development Potential
- Figure 10. On Board Diagnostics Device Market Size by Country (M USD)
- Figure 11. Company Assessment Quadrant
- Figure 12. Global On Board Diagnostics Device Product Life Cycle
- Figure 13. On Board Diagnostics Device Sales Share by Manufacturers in 2025
- Figure 14. Global On Board Diagnostics Device Revenue Share by Manufacturers in 2025
- Figure 15. On Board Diagnostics Device Market Share by Company Type (Tier 1, Tier 2 and Tier 3): 2025
- Figure 16. Global Market On Board Diagnostics Device Average Price (USD/Unit) of Key Manufacturers in 2025
- Figure 17. The Global 5 and 10 Largest Players: Market Share by On Board Diagnostics Device Revenue in 2025
- Figure 18. Industry Chain Map of On Board Diagnostics Device
- Figure 19. Global On Board Diagnostics Device Market PEST Analysis
- Figure 20. Global On Board Diagnostics Device Market Porter's Five Forces Analysis
- Figure 21. Global Merchandise Trade as a Percentage Of GDP
- Figure 22. US - Imports of Goods by Country
- Figure 23. China Exports by Country
- Figure 24. ESG Rating Distribution of The Leading Company Compared With Its Peers
- Figure 25. Evaluation Matrix of Segment Market Development Potential (Type)
- Figure 26. Global On Board Diagnostics Device Market Share by Type
- Figure 27. Sales Market Share of On Board Diagnostics Device by Type (2020-2025)
- Figure 28. Sales Market Share of On Board Diagnostics Device by Type in 2025
- Figure 29. Market Share of On Board Diagnostics Device by Type (2020-2025)
- Figure 30. Market Share of On Board Diagnostics Device by Type in 2025
- Figure 31. Evaluation Matrix of Segment Market Development Potential (Application)

- Figure 32. Global On Board Diagnostics Device Market Share by Application
- Figure 33. Global On Board Diagnostics Device Sales Market Share by Application (2020-2025)
- Figure 34. Global On Board Diagnostics Device Sales Market Share by Application in 2025
- Figure 35. Global On Board Diagnostics Device Market Share by Application (2020-2025)
- Figure 36. Global On Board Diagnostics Device Market Share by Application in 2025
- Figure 37. Global On Board Diagnostics Device Sales Growth Rate by Application (2020-2025)
- Figure 38. Global On Board Diagnostics Device Sales Market Share by Region (2020-2025)
- Figure 39. Global On Board Diagnostics Device Market Size by Region (2020-2025)
- Figure 40. North America On Board Diagnostics Device Sales and Growth Rate (2020-2025) & (K Units)
- Figure 41. North America On Board Diagnostics Device Sales and Growth Rate (2020-2025) & (K Units)
- Figure 42. North America On Board Diagnostics Device Sales Market Share by Country in 2024
- Figure 43. North America On Board Diagnostics Device Market Size and Growth Rate (2020-2025) & (M USD)
- Figure 44. North America On Board Diagnostics Device Market Size by Country in 2024
- Figure 45. U.S. On Board Diagnostics Device Sales and Growth Rate (2020-2025) & (K Units)
- Figure 46. U.S. On Board Diagnostics Device Market Size and Growth Rate (2020-2025) & (M USD)
- Figure 47. Canada On Board Diagnostics Device Sales (K Units) and Growth Rate (2020-2025)
- Figure 48. Canada On Board Diagnostics Device Market Size (M USD) and Growth Rate (2020-2025)
- Figure 49. Mexico On Board Diagnostics Device Sales (Units) and Growth Rate (2020-2025)
- Figure 50. Mexico On Board Diagnostics Device Market Size (Units) and Growth Rate (2020-2025)
- Figure 51. Europe On Board Diagnostics Device Sales and Growth Rate (2020-2025) & (K Units)
- Figure 52. Europe On Board Diagnostics Device Sales Market Share by Country in 2024
- Figure 53. Europe On Board Diagnostics Device Market Size and Growth Rate

(2020-2025) & (M USD)

Figure 54. Europe On Board Diagnostics Device Market Size by Country in 2024

Figure 55. Germany On Board Diagnostics Device Sales and Growth Rate (2020-2025) & (K Units)

Figure 56. Germany On Board Diagnostics Device Market Size and Growth Rate (2020-2025) & (M USD)

Figure 57. France On Board Diagnostics Device Sales and Growth Rate (2020-2025) & (K Units)

Figure 58. France On Board Diagnostics Device Market Size and Growth Rate (2020-2025) & (M USD)

Figure 59. U.K. On Board Diagnostics Device Sales and Growth Rate (2020-2025) & (K Units)

Figure 60. U.K. On Board Diagnostics Device Market Size and Growth Rate (2020-2025) & (M USD)

Figure 61. Italy On Board Diagnostics Device Sales and Growth Rate (2020-2025) & (K Units)

Figure 62. Italy On Board Diagnostics Device Market Size and Growth Rate (2020-2025) & (M USD)

Figure 63. Spain On Board Diagnostics Device Sales and Growth Rate (2020-2025) & (K Units)

Figure 64. Spain On Board Diagnostics Device Market Size and Growth Rate (2020-2025) & (M USD)

Figure 65. Asia Pacific On Board Diagnostics Device Sales and Growth Rate (K Units)

Figure 66. Asia Pacific On Board Diagnostics Device Sales Market Share by Region in 2024

Figure 67. Asia Pacific On Board Diagnostics Device Market Size by Region in 2024

Figure 68. China On Board Diagnostics Device Sales and Growth Rate (2020-2025) & (K Units)

Figure 69. China On Board Diagnostics Device Market Size and Growth Rate (2020-2025) & (M USD)

Figure 70. Japan On Board Diagnostics Device Sales and Growth Rate (2020-2025) & (K Units)

Figure 71. Japan On Board Diagnostics Device Market Size and Growth Rate (2020-2025) & (M USD)

Figure 72. South Korea On Board Diagnostics Device Sales and Growth Rate (2020-2025) & (K Units)

Figure 73. South Korea On Board Diagnostics Device Market Size and Growth Rate (2020-2025) & (M USD)

Figure 74. India On Board Diagnostics Device Sales and Growth Rate (2020-2025) & (K

Units)

Figure 75. India On Board Diagnostics Device Market Size and Growth Rate (2020-2025) & (M USD)

Figure 76. Southeast Asia On Board Diagnostics Device Sales and Growth Rate (2020-2025) & (K Units)

Figure 77. Southeast Asia On Board Diagnostics Device Market Size and Growth Rate (2020-2025) & (M USD)

Figure 78. South America On Board Diagnostics Device Sales and Growth Rate (K Units)

Figure 79. South America On Board Diagnostics Device Sales Market Share by Country in 2024

Figure 80. South America On Board Diagnostics Device Market Size and Growth Rate (M USD)

Figure 81. South America On Board Diagnostics Device Market Size by Country in 2024

Figure 82. Brazil On Board Diagnostics Device Sales and Growth Rate (2020-2025) & (K Units)

Figure 83. Brazil On Board Diagnostics Device Market Size and Growth Rate (2020-2025) & (M USD)

Figure 84. Argentina On Board Diagnostics Device Sales and Growth Rate (2020-2025) & (K Units)

Figure 85. Argentina On Board Diagnostics Device Market Size and Growth Rate (2020-2025) & (M USD)

Figure 86. Columbia On Board Diagnostics Device Sales and Growth Rate (2020-2025) & (K Units)

Figure 87. Columbia On Board Diagnostics Device Market Size and Growth Rate (2020-2025) & (M USD)

Figure 88. Middle East and Africa On Board Diagnostics Device Sales and Growth Rate (K Units)

Figure 89. Middle East and Africa On Board Diagnostics Device Sales Market Share by Region in 2024

Figure 90. Middle East and Africa On Board Diagnostics Device Market Size and Growth Rate (M USD)

Figure 91. Middle East and Africa On Board Diagnostics Device Market Size by Region in 2024

Figure 92. Saudi Arabia On Board Diagnostics Device Sales and Growth Rate (2020-2025) & (K Units)

Figure 93. Saudi Arabia On Board Diagnostics Device Market Size and Growth Rate (2020-2025) & (M USD)

Figure 94. UAE On Board Diagnostics Device Sales and Growth Rate (2020-2025) & (K

Units)

Figure 95. UAE On Board Diagnostics Device Market Size and Growth Rate (2020-2025) & (M USD)

Figure 96. Egypt On Board Diagnostics Device Sales and Growth Rate (2020-2025) & (K Units)

Figure 97. Egypt On Board Diagnostics Device Market Size and Growth Rate (2020-2025) & (M USD)

Figure 98. Nigeria On Board Diagnostics Device Sales and Growth Rate (2020-2025) & (K Units)

Figure 99. Nigeria On Board Diagnostics Device Market Size and Growth Rate (2020-2025) & (M USD)

Figure 100. South Africa On Board Diagnostics Device Sales and Growth Rate (2020-2025) & (K Units)

Figure 101. South Africa On Board Diagnostics Device Market Size and Growth Rate (2020-2025) & (M USD)

Figure 102. Global On Board Diagnostics Device Production Market Share by Region (2020-2025)

Figure 103. North America On Board Diagnostics Device Production (K Units) Growth Rate (2020-2025)

Figure 104. Europe On Board Diagnostics Device Production (K Units) Growth Rate (2020-2025)

Figure 105. Japan On Board Diagnostics Device Production (K Units) Growth Rate (2020-2025)

Figure 106. China On Board Diagnostics Device Production (K Units) Growth Rate (2020-2025)

Figure 107. Global On Board Diagnostics Device Sales Forecast by Volume (2020-2035) & (K Units)

Figure 108. Global On Board Diagnostics Device Market Size Forecast by Value (2020-2035) & (M USD)

Figure 109. Global On Board Diagnostics Device Sales Market Share Forecast by Type (2026-2035)

Figure 110. Global On Board Diagnostics Device Market Share Forecast by Type (2026-2035)

Figure 111. Global On Board Diagnostics Device Sales Forecast by Application (2026-2035)

Figure 112. Global On Board Diagnostics Device Market Share Forecast by Application (2026-2035)

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