

Global On-Board Diagnostic Modules Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global On-Board Diagnostic Modules market size is expected to reach \$ 5708 million by 2032, rising at a market growth of 7.1% CAGR during the forecast period (2026-2032).

In 2025, global On-Board Diagnostic Module output was about 95 million units, with total capacity near 130 million units annually. The average unit price is around USD 36, and industry gross margin is approximately 29%. On-Board Diagnostic (OBD) Modules are embedded electronic control units (ECUs) integrated into vehicles to monitor, record, and report the performance of critical powertrain, emission, and safety systems in real time, ensuring compliance with regulatory standards such as OBD-II and enabling fault detection, predictive maintenance, and telematics-based diagnostics. Technically, an OBD module interfaces with multiple in-vehicle networks (CAN, LIN, FlexRay, Automotive Ethernet), collects sensor data from engine, transmission, exhaust after-treatment (e.g., NO_x, O₂ sensors), battery management systems (in EVs), and emission control components, processes diagnostic trouble codes (DTCs), and communicates results via standardized protocols. The supply chain begins upstream with semiconductor suppliers (MCUs, SoCs, CAN transceivers, memory chips), PCB and passive component manufacturers, and embedded software providers (AUTOSAR stacks, cybersecurity firmware); midstream includes Tier-1 automotive electronics suppliers (e.g., Bosch, Continental, Denso, Aptiv, ZF) that design and integrate OBD hardware/software into ECUs or telematics control units (TCUs); and downstream consists of OEM vehicle manufacturers integrating the modules into ICE, hybrid, and EV platforms, as well as aftermarket scan tool makers, fleet telematics providers, regulatory agencies, and service networks that utilize OBD data for compliance verification, diagnostics, and remote vehicle health monitoring.

This report studies the global On-Board Diagnostic Modules production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for On-Board Diagnostic Modules 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 On-Board Diagnostic Modules that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global On-Board Diagnostic Modules total production and demand, 2021-2032, (K Units)

Global On-Board Diagnostic Modules total production value, 2021-2032, (USD Million)

Global On-Board Diagnostic Modules production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (K Units), (based on production site)

Global On-Board Diagnostic Modules consumption by region & country, CAGR, 2021-2032 & (K Units)

U.S. VS China: On-Board Diagnostic Modules domestic production, consumption, key domestic manufacturers and share

Global On-Board Diagnostic Modules production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (K Units)

Global On-Board Diagnostic Modules production by Type, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

Global On-Board Diagnostic Modules production by Application, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

This report profiles key players in the global On-Board Diagnostic Modules 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 Bosch, Continental, Denso, BorgWarner, ACTIA Group, Softing, TEXA, OBD Solutions, iWave Systems, Hella Gutmann, 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 On-Board Diagnostic Modules 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 On-Board Diagnostic Modules Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global On-Board Diagnostic Modules Market, Segmentation by Type:

Emission-Focused Diagnostic Modules

Full Vehicle Health Monitoring Modules

Global On-Board Diagnostic Modules Market, Segmentation by Regulatory:

OBD-I Modules

OBD-II Modules

Global On-Board Diagnostic Modules Market, Segmentation by Application:

Gasoline Vehicles

Diesel Vehicles

Hybrid Electric Vehicles

Battery Electric Vehicles

Hydrogen Fuel Cell Vehicles

Companies Profiled:

Bosch

Continental

Denso

BorgWarner

ACTIA Group

Softing

TEXA

OBD Solutions

iWave Systems

Hella Gutmann

ETAS

Horiba

Marelli

SPX Technologies

KPIT Technologies

Vector Informatik

Key Questions Answered:

1. How big is the global On-Board Diagnostic Modules market?
2. What is the demand of the global On-Board Diagnostic Modules market?
3. What is the year over year growth of the global On-Board Diagnostic Modules market?
4. What is the production and production value of the global On-Board Diagnostic Modules market?
5. Who are the key producers in the global On-Board Diagnostic Modules market?
6. What are the growth factors driving the market demand?

Contents

1 SUPPLY SUMMARY

- 1.1 On-Board Diagnostic Modules Introduction
- 1.2 World On-Board Diagnostic Modules Supply & Forecast
 - 1.2.1 World On-Board Diagnostic Modules Production Value (2021 & 2025 & 2032)
 - 1.2.2 World On-Board Diagnostic Modules Production (2021-2032)
 - 1.2.3 World On-Board Diagnostic Modules Pricing Trends (2021-2032)
- 1.3 World On-Board Diagnostic Modules Production by Region (Based on Production Site)
 - 1.3.1 World On-Board Diagnostic Modules Production Value by Region (2021-2032)
 - 1.3.2 World On-Board Diagnostic Modules Production by Region (2021-2032)
 - 1.3.3 World On-Board Diagnostic Modules Average Price by Region (2021-2032)
 - 1.3.4 North America On-Board Diagnostic Modules Production (2021-2032)
 - 1.3.5 Europe On-Board Diagnostic Modules Production (2021-2032)
 - 1.3.6 China On-Board Diagnostic Modules Production (2021-2032)
 - 1.3.7 Japan On-Board Diagnostic Modules Production (2021-2032)
 - 1.3.8 South Korea On-Board Diagnostic Modules Production (2021-2032)
 - 1.3.9 India On-Board Diagnostic Modules Production (2021-2032)
 - 1.3.10 Mexico On-Board Diagnostic Modules Production (2021-2032)
- 1.4 Market Drivers, Restraints and Trends
 - 1.4.1 On-Board Diagnostic Modules Market Drivers
 - 1.4.2 Factors Affecting Demand
 - 1.4.3 On-Board Diagnostic Modules Major Market Trends

2 DEMAND SUMMARY

- 2.1 World On-Board Diagnostic Modules Demand (2021-2032)
- 2.2 World On-Board Diagnostic Modules Consumption by Region
 - 2.2.1 World On-Board Diagnostic Modules Consumption by Region (2021-2026)
 - 2.2.2 World On-Board Diagnostic Modules Consumption Forecast by Region (2027-2032)
- 2.3 United States On-Board Diagnostic Modules Consumption (2021-2032)
- 2.4 China On-Board Diagnostic Modules Consumption (2021-2032)
- 2.5 Europe On-Board Diagnostic Modules Consumption (2021-2032)
- 2.6 Japan On-Board Diagnostic Modules Consumption (2021-2032)
- 2.7 South Korea On-Board Diagnostic Modules Consumption (2021-2032)
- 2.8 ASEAN On-Board Diagnostic Modules Consumption (2021-2032)

2.9 India On-Board Diagnostic Modules Consumption (2021-2032)

3 WORLD MANUFACTURERS COMPETITIVE ANALYSIS

3.1 World On-Board Diagnostic Modules Production Value by Manufacturer (2021-2026)

3.2 World On-Board Diagnostic Modules Production by Manufacturer (2021-2026)

3.3 World On-Board Diagnostic Modules Average Price by Manufacturer (2021-2026)

3.4 On-Board Diagnostic Modules Company Evaluation Quadrant

3.5 Industry Rank and Concentration Rate (CR)

3.5.1 Global On-Board Diagnostic Modules Industry Rank of Major Manufacturers

3.5.2 Global Concentration Ratios (CR4) for On-Board Diagnostic Modules in 2025

3.5.3 Global Concentration Ratios (CR8) for On-Board Diagnostic Modules in 2025

3.6 On-Board Diagnostic Modules Market: Overall Company Footprint Analysis

3.6.1 On-Board Diagnostic Modules Market: Region Footprint

3.6.2 On-Board Diagnostic Modules Market: Company Product Type Footprint

3.6.3 On-Board Diagnostic Modules Market: Company Product Application Footprint

3.7 Competitive Environment

3.7.1 Historical Structure of the Industry

3.7.2 Barriers of Market Entry

3.7.3 Factors of Competition

3.8 New Entrant and Capacity Expansion Plans

3.9 Mergers, Acquisition, Agreements, and Collaborations

4 UNITED STATES VS CHINA VS REST OF THE WORLD

4.1 United States VS China: On-Board Diagnostic Modules Production Value Comparison

4.1.1 United States VS China: On-Board Diagnostic Modules Production Value Comparison (2021 & 2025 & 2032)

4.1.2 United States VS China: On-Board Diagnostic Modules Production Value Market Share Comparison (2021 & 2025 & 2032)

4.2 United States VS China: On-Board Diagnostic Modules Production Comparison

4.2.1 United States VS China: On-Board Diagnostic Modules Production Comparison (2021 & 2025 & 2032)

4.2.2 United States VS China: On-Board Diagnostic Modules Production Market Share Comparison (2021 & 2025 & 2032)

4.3 United States VS China: On-Board Diagnostic Modules Consumption Comparison

4.3.1 United States VS China: On-Board Diagnostic Modules Consumption

Comparison (2021 & 2025 & 2032)

4.3.2 United States VS China: On-Board Diagnostic Modules Consumption Market Share Comparison (2021 & 2025 & 2032)

4.4 United States Based On-Board Diagnostic Modules Manufacturers and Market Share, 2021-2026

4.4.1 United States Based On-Board Diagnostic Modules Manufacturers, Headquarters and Production Site (States, Country)

4.4.2 United States Based Manufacturers On-Board Diagnostic Modules Production Value (2021-2026)

4.4.3 United States Based Manufacturers On-Board Diagnostic Modules Production (2021-2026)

4.5 China Based On-Board Diagnostic Modules Manufacturers and Market Share

4.5.1 China Based On-Board Diagnostic Modules Manufacturers, Headquarters and Production Site (Province, Country)

4.5.2 China Based Manufacturers On-Board Diagnostic Modules Production Value (2021-2026)

4.5.3 China Based Manufacturers On-Board Diagnostic Modules Production (2021-2026)

4.6 Rest of World Based On-Board Diagnostic Modules Manufacturers and Market Share, 2021-2026

4.6.1 Rest of World Based On-Board Diagnostic Modules Manufacturers, Headquarters and Production Site (State, Country)

4.6.2 Rest of World Based Manufacturers On-Board Diagnostic Modules Production Value (2021-2026)

4.6.3 Rest of World Based Manufacturers On-Board Diagnostic Modules Production (2021-2026)

5 MARKET ANALYSIS BY TYPE

5.1 World On-Board Diagnostic Modules Market Size Overview by Type: 2021 VS 2025 VS 2032

5.2 Segment Introduction by Type

5.2.1 Emission-Focused Diagnostic Modules

5.2.2 Full Vehicle Health Monitoring Modules

5.3 Market Segment by Type

5.3.1 World On-Board Diagnostic Modules Production by Type (2021-2032)

5.3.2 World On-Board Diagnostic Modules Production Value by Type (2021-2032)

5.3.3 World On-Board Diagnostic Modules Average Price by Type (2021-2032)

6 MARKET ANALYSIS BY REGULATORY

6.1 World On-Board Diagnostic Modules Market Size Overview by Regulatory: 2021 VS 2025 VS 2032

6.2 Segment Introduction by Regulatory

6.2.1 OBD-I Modules

6.2.2 OBD-II Modules

6.3 Market Segment by Regulatory

6.3.1 World On-Board Diagnostic Modules Production by Regulatory (2021-2032)

6.3.2 World On-Board Diagnostic Modules Production Value by Regulatory (2021-2032)

6.3.3 World On-Board Diagnostic Modules Average Price by Regulatory (2021-2032)

7 MARKET ANALYSIS BY APPLICATION

7.1 World On-Board Diagnostic Modules Market Size Overview by Application: 2021 VS 2025 VS 2032

7.2 Segment Introduction by Application

7.2.1 Gasoline Vehicles

7.2.2 Diesel Vehicles

7.2.3 Hybrid Electric Vehicles

7.2.4 Battery Electric Vehicles

7.2.5 Hydrogen Fuel Cell Vehicles

7.3 Market Segment by Application

7.3.1 World On-Board Diagnostic Modules Production by Application (2021-2032)

7.3.2 World On-Board Diagnostic Modules Production Value by Application (2021-2032)

7.3.3 World On-Board Diagnostic Modules Average Price by Application (2021-2032)

8 COMPANY PROFILES

8.1 Bosch

8.1.1 Bosch Details

8.1.2 Bosch Major Business

8.1.3 Bosch On-Board Diagnostic Modules Product and Services

8.1.4 Bosch On-Board Diagnostic Modules Production, Price, Value, Gross Margin and Market Share (2021-2026)

8.1.5 Bosch Recent Developments/Updates

8.1.6 Bosch Competitive Strengths & Weaknesses

8.2 Continental

8.2.1 Continental Details

8.2.2 Continental Major Business

8.2.3 Continental On-Board Diagnostic Modules Product and Services

8.2.4 Continental On-Board Diagnostic Modules Production, Price, Value, Gross Margin and Market Share (2021-2026)

8.2.5 Continental Recent Developments/Updates

8.2.6 Continental Competitive Strengths & Weaknesses

8.3 Denso

8.3.1 Denso Details

8.3.2 Denso Major Business

8.3.3 Denso On-Board Diagnostic Modules Product and Services

8.3.4 Denso On-Board Diagnostic Modules Production, Price, Value, Gross Margin and Market Share (2021-2026)

8.3.5 Denso Recent Developments/Updates

8.3.6 Denso Competitive Strengths & Weaknesses

8.4 BorgWarner

8.4.1 BorgWarner Details

8.4.2 BorgWarner Major Business

8.4.3 BorgWarner On-Board Diagnostic Modules Product and Services

8.4.4 BorgWarner On-Board Diagnostic Modules Production, Price, Value, Gross Margin and Market Share (2021-2026)

8.4.5 BorgWarner Recent Developments/Updates

8.4.6 BorgWarner Competitive Strengths & Weaknesses

8.5 ACTIA Group

8.5.1 ACTIA Group Details

8.5.2 ACTIA Group Major Business

8.5.3 ACTIA Group On-Board Diagnostic Modules Product and Services

8.5.4 ACTIA Group On-Board Diagnostic Modules Production, Price, Value, Gross Margin and Market Share (2021-2026)

8.5.5 ACTIA Group Recent Developments/Updates

8.5.6 ACTIA Group Competitive Strengths & Weaknesses

8.6 Softing

8.6.1 Softing Details

8.6.2 Softing Major Business

8.6.3 Softing On-Board Diagnostic Modules Product and Services

8.6.4 Softing On-Board Diagnostic Modules Production, Price, Value, Gross Margin and Market Share (2021-2026)

8.6.5 Softing Recent Developments/Updates

8.6.6 Softing Competitive Strengths & Weaknesses

8.7 TEXA

8.7.1 TEXA Details

8.7.2 TEXA Major Business

8.7.3 TEXA On-Board Diagnostic Modules Product and Services

8.7.4 TEXA On-Board Diagnostic Modules Production, Price, Value, Gross Margin and Market Share (2021-2026)

8.7.5 TEXA Recent Developments/Updates

8.7.6 TEXA Competitive Strengths & Weaknesses

8.8 OBD Solutions

8.8.1 OBD Solutions Details

8.8.2 OBD Solutions Major Business

8.8.3 OBD Solutions On-Board Diagnostic Modules Product and Services

8.8.4 OBD Solutions On-Board Diagnostic Modules Production, Price, Value, Gross Margin and Market Share (2021-2026)

8.8.5 OBD Solutions Recent Developments/Updates

8.8.6 OBD Solutions Competitive Strengths & Weaknesses

8.9 iWave Systems

8.9.1 iWave Systems Details

8.9.2 iWave Systems Major Business

8.9.3 iWave Systems On-Board Diagnostic Modules Product and Services

8.9.4 iWave Systems On-Board Diagnostic Modules Production, Price, Value, Gross Margin and Market Share (2021-2026)

8.9.5 iWave Systems Recent Developments/Updates

8.9.6 iWave Systems Competitive Strengths & Weaknesses

8.10 Hella Gutmann

8.10.1 Hella Gutmann Details

8.10.2 Hella Gutmann Major Business

8.10.3 Hella Gutmann On-Board Diagnostic Modules Product and Services

8.10.4 Hella Gutmann On-Board Diagnostic Modules Production, Price, Value, Gross Margin and Market Share (2021-2026)

8.10.5 Hella Gutmann Recent Developments/Updates

8.10.6 Hella Gutmann Competitive Strengths & Weaknesses

8.11 ETAS

8.11.1 ETAS Details

8.11.2 ETAS Major Business

8.11.3 ETAS On-Board Diagnostic Modules Product and Services

8.11.4 ETAS On-Board Diagnostic Modules Production, Price, Value, Gross Margin and Market Share (2021-2026)

- 8.11.5 ETAS Recent Developments/Updates
- 8.11.6 ETAS Competitive Strengths & Weaknesses
- 8.12 Horiba
 - 8.12.1 Horiba Details
 - 8.12.2 Horiba Major Business
 - 8.12.3 Horiba On-Board Diagnostic Modules Product and Services
 - 8.12.4 Horiba On-Board Diagnostic Modules Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 8.12.5 Horiba Recent Developments/Updates
 - 8.12.6 Horiba Competitive Strengths & Weaknesses
- 8.13 Marelli
 - 8.13.1 Marelli Details
 - 8.13.2 Marelli Major Business
 - 8.13.3 Marelli On-Board Diagnostic Modules Product and Services
 - 8.13.4 Marelli On-Board Diagnostic Modules Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 8.13.5 Marelli Recent Developments/Updates
 - 8.13.6 Marelli Competitive Strengths & Weaknesses
- 8.14 SPX Technologies
 - 8.14.1 SPX Technologies Details
 - 8.14.2 SPX Technologies Major Business
 - 8.14.3 SPX Technologies On-Board Diagnostic Modules Product and Services
 - 8.14.4 SPX Technologies On-Board Diagnostic Modules Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 8.14.5 SPX Technologies Recent Developments/Updates
 - 8.14.6 SPX Technologies Competitive Strengths & Weaknesses
- 8.15 KPIT Technologies
 - 8.15.1 KPIT Technologies Details
 - 8.15.2 KPIT Technologies Major Business
 - 8.15.3 KPIT Technologies On-Board Diagnostic Modules Product and Services
 - 8.15.4 KPIT Technologies On-Board Diagnostic Modules Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 8.15.5 KPIT Technologies Recent Developments/Updates
 - 8.15.6 KPIT Technologies Competitive Strengths & Weaknesses
- 8.16 Vector Informatik
 - 8.16.1 Vector Informatik Details
 - 8.16.2 Vector Informatik Major Business
 - 8.16.3 Vector Informatik On-Board Diagnostic Modules Product and Services
 - 8.16.4 Vector Informatik On-Board Diagnostic Modules Production, Price, Value,

Gross Margin and Market Share (2021-2026)

8.16.5 Vector Informatik Recent Developments/Updates

8.16.6 Vector Informatik Competitive Strengths & Weaknesses

9 INDUSTRY CHAIN ANALYSIS

9.1 On-Board Diagnostic Modules Industry Chain

9.2 On-Board Diagnostic Modules Upstream Analysis

9.2.1 On-Board Diagnostic Modules Core Raw Materials

9.2.2 Main Manufacturers of On-Board Diagnostic Modules Core Raw Materials

9.3 Midstream Analysis

9.4 Downstream Analysis

9.5 On-Board Diagnostic Modules Production Mode

9.6 On-Board Diagnostic Modules Procurement Model

9.7 On-Board Diagnostic Modules Industry Sales Model and Sales Channels

9.7.1 On-Board Diagnostic Modules Sales Model

9.7.2 On-Board Diagnostic Modules Typical Distributors

10 RESEARCH FINDINGS AND CONCLUSION

11 APPENDIX

11.1 Methodology

11.2 Research Process and Data Source

11.3 Disclaimer

List Of Tables

LIST OF TABLES

- Table 1. World On-Board Diagnostic Modules Production Value by Region (2021, 2025 and 2032) & (USD Million)
- Table 2. World On-Board Diagnostic Modules Production Value by Region (2021-2026) & (USD Million)
- Table 3. World On-Board Diagnostic Modules Production Value by Region (2027-2032) & (USD Million)
- Table 4. World On-Board Diagnostic Modules Production Value Market Share by Region (2021-2026)
- Table 5. World On-Board Diagnostic Modules Production Value Market Share by Region (2027-2032)
- Table 6. World On-Board Diagnostic Modules Production by Region (2021-2026) & (K Units)
- Table 7. World On-Board Diagnostic Modules Production by Region (2027-2032) & (K Units)
- Table 8. World On-Board Diagnostic Modules Production Market Share by Region (2021-2026)
- Table 9. World On-Board Diagnostic Modules Production Market Share by Region (2027-2032)
- Table 10. World On-Board Diagnostic Modules Average Price by Region (2021-2026) & (US\$/Unit)
- Table 11. World On-Board Diagnostic Modules Average Price by Region (2027-2032) & (US\$/Unit)
- Table 12. On-Board Diagnostic Modules Major Market Trends
- Table 13. World On-Board Diagnostic Modules Consumption Growth Rate Forecast by Region (2021 & 2025 & 2032) & (K Units)
- Table 14. World On-Board Diagnostic Modules Consumption by Region (2021-2026) & (K Units)
- Table 15. World On-Board Diagnostic Modules Consumption Forecast by Region (2027-2032) & (K Units)
- Table 16. World On-Board Diagnostic Modules Production Value by Manufacturer (2021-2026) & (USD Million)
- Table 17. Production Value Market Share of Key On-Board Diagnostic Modules Producers in 2025
- Table 18. World On-Board Diagnostic Modules Production by Manufacturer (2021-2026) & (K Units)

Table 19. Production Market Share of Key On-Board Diagnostic Modules Producers in 2025

Table 20. World On-Board Diagnostic Modules Average Price by Manufacturer (2021-2026) & (US\$/Unit)

Table 21. Global On-Board Diagnostic Modules Company Evaluation Quadrant

Table 22. World On-Board Diagnostic Modules Industry Rank of Major Manufacturers, Based on Production Value in 2025

Table 23. Head Office and On-Board Diagnostic Modules Production Site of Key Manufacturer

Table 24. On-Board Diagnostic Modules Market: Company Product Type Footprint

Table 25. On-Board Diagnostic Modules Market: Company Product Application Footprint

Table 26. On-Board Diagnostic Modules Competitive Factors

Table 27. On-Board Diagnostic Modules New Entrant and Capacity Expansion Plans

Table 28. On-Board Diagnostic Modules Mergers & Acquisitions Activity

Table 29. United States VS China On-Board Diagnostic Modules Production Value Comparison, (2021 & 2025 & 2032) & (USD Million)

Table 30. United States VS China On-Board Diagnostic Modules Production Comparison, (2021 & 2025 & 2032) & (K Units)

Table 31. United States VS China On-Board Diagnostic Modules Consumption Comparison, (2021 & 2025 & 2032) & (K Units)

Table 32. United States Based On-Board Diagnostic Modules Manufacturers, Headquarters and Production Site (States, Country)

Table 33. United States Based Manufacturers On-Board Diagnostic Modules Production Value, (2021-2026) & (USD Million)

Table 34. United States Based Manufacturers On-Board Diagnostic Modules Production Value Market Share (2021-2026)

Table 35. United States Based Manufacturers On-Board Diagnostic Modules Production (2021-2026) & (K Units)

Table 36. United States Based Manufacturers On-Board Diagnostic Modules Production Market Share (2021-2026)

Table 37. China Based On-Board Diagnostic Modules Manufacturers, Headquarters and Production Site (Province, Country)

Table 38. China Based Manufacturers On-Board Diagnostic Modules Production Value, (2021-2026) & (USD Million)

Table 39. China Based Manufacturers On-Board Diagnostic Modules Production Value Market Share (2021-2026)

Table 40. China Based Manufacturers On-Board Diagnostic Modules Production, (2021-2026) & (K Units)

Table 41. China Based Manufacturers On-Board Diagnostic Modules Production Market Share (2021-2026)

Table 42. Rest of World Based On-Board Diagnostic Modules Manufacturers, Headquarters and Production Site (State, Country)

Table 43. Rest of World Based Manufacturers On-Board Diagnostic Modules Production Value, (2021-2026) & (USD Million)

Table 44. Rest of World Based Manufacturers On-Board Diagnostic Modules Production Value Market Share (2021-2026)

Table 45. Rest of World Based Manufacturers On-Board Diagnostic Modules Production, (2021-2026) & (K Units)

Table 46. Rest of World Based Manufacturers On-Board Diagnostic Modules Production Market Share (2021-2026)

Table 47. World On-Board Diagnostic Modules Production Value by Type, (USD Million), 2021 & 2025 & 2032

Table 48. World On-Board Diagnostic Modules Production by Type (2021-2026) & (K Units)

Table 49. World On-Board Diagnostic Modules Production by Type (2027-2032) & (K Units)

Table 50. World On-Board Diagnostic Modules Production Value by Type (2021-2026) & (USD Million)

Table 51. World On-Board Diagnostic Modules Production Value by Type (2027-2032) & (USD Million)

Table 52. World On-Board Diagnostic Modules Average Price by Type (2021-2026) & (US\$/Unit)

Table 53. World On-Board Diagnostic Modules Average Price by Type (2027-2032) & (US\$/Unit)

Table 54. World On-Board Diagnostic Modules Production Value by Regulatory, (USD Million), 2021 & 2025 & 2032

Table 55. World On-Board Diagnostic Modules Production by Regulatory (2021-2026) & (K Units)

Table 56. World On-Board Diagnostic Modules Production by Regulatory (2027-2032) & (K Units)

Table 57. World On-Board Diagnostic Modules Production Value by Regulatory (2021-2026) & (USD Million)

Table 58. World On-Board Diagnostic Modules Production Value by Regulatory (2027-2032) & (USD Million)

Table 59. World On-Board Diagnostic Modules Average Price by Regulatory (2021-2026) & (US\$/Unit)

Table 60. World On-Board Diagnostic Modules Average Price by Regulatory

(2027-2032) & (US\$/Unit)

Table 61. World On-Board Diagnostic Modules Production Value by Application, (USD Million), 2021 & 2025 & 2032

Table 62. World On-Board Diagnostic Modules Production by Application (2021-2026) & (K Units)

Table 63. World On-Board Diagnostic Modules Production by Application (2027-2032) & (K Units)

Table 64. World On-Board Diagnostic Modules Production Value by Application (2021-2026) & (USD Million)

Table 65. World On-Board Diagnostic Modules Production Value by Application (2027-2032) & (USD Million)

Table 66. World On-Board Diagnostic Modules Average Price by Application (2021-2026) & (US\$/Unit)

Table 67. World On-Board Diagnostic Modules Average Price by Application (2027-2032) & (US\$/Unit)

Table 68. Bosch Basic Information, Manufacturing Base and Competitors

Table 69. Bosch Major Business

Table 70. Bosch On-Board Diagnostic Modules Product and Services

Table 71. Bosch On-Board Diagnostic Modules Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 72. Bosch Recent Developments/Updates

Table 73. Bosch Competitive Strengths & Weaknesses

Table 74. Continental Basic Information, Manufacturing Base and Competitors

Table 75. Continental Major Business

Table 76. Continental On-Board Diagnostic Modules Product and Services

Table 77. Continental On-Board Diagnostic Modules Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 78. Continental Recent Developments/Updates

Table 79. Continental Competitive Strengths & Weaknesses

Table 80. Denso Basic Information, Manufacturing Base and Competitors

Table 81. Denso Major Business

Table 82. Denso On-Board Diagnostic Modules Product and Services

Table 83. Denso On-Board Diagnostic Modules Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 84. Denso Recent Developments/Updates

Table 85. Denso Competitive Strengths & Weaknesses

Table 86. BorgWarner Basic Information, Manufacturing Base and Competitors

Table 87. BorgWarner Major Business

- Table 88. BorgWarner On-Board Diagnostic Modules Product and Services
- Table 89. BorgWarner On-Board Diagnostic Modules Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 90. BorgWarner Recent Developments/Updates
- Table 91. BorgWarner Competitive Strengths & Weaknesses
- Table 92. ACTIA Group Basic Information, Manufacturing Base and Competitors
- Table 93. ACTIA Group Major Business
- Table 94. ACTIA Group On-Board Diagnostic Modules Product and Services
- Table 95. ACTIA Group On-Board Diagnostic Modules Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 96. ACTIA Group Recent Developments/Updates
- Table 97. ACTIA Group Competitive Strengths & Weaknesses
- Table 98. Softing Basic Information, Manufacturing Base and Competitors
- Table 99. Softing Major Business
- Table 100. Softing On-Board Diagnostic Modules Product and Services
- Table 101. Softing On-Board Diagnostic Modules Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 102. Softing Recent Developments/Updates
- Table 103. Softing Competitive Strengths & Weaknesses
- Table 104. TEXA Basic Information, Manufacturing Base and Competitors
- Table 105. TEXA Major Business
- Table 106. TEXA On-Board Diagnostic Modules Product and Services
- Table 107. TEXA On-Board Diagnostic Modules Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 108. TEXA Recent Developments/Updates
- Table 109. TEXA Competitive Strengths & Weaknesses
- Table 110. OBD Solutions Basic Information, Manufacturing Base and Competitors
- Table 111. OBD Solutions Major Business
- Table 112. OBD Solutions On-Board Diagnostic Modules Product and Services
- Table 113. OBD Solutions On-Board Diagnostic Modules Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 114. OBD Solutions Recent Developments/Updates
- Table 115. OBD Solutions Competitive Strengths & Weaknesses
- Table 116. iWave Systems Basic Information, Manufacturing Base and Competitors
- Table 117. iWave Systems Major Business

Table 118. iWave Systems On-Board Diagnostic Modules Product and Services

Table 119. iWave Systems On-Board Diagnostic Modules Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 120. iWave Systems Recent Developments/Updates

Table 121. iWave Systems Competitive Strengths & Weaknesses

Table 122. Hella Gutmann Basic Information, Manufacturing Base and Competitors

Table 123. Hella Gutmann Major Business

Table 124. Hella Gutmann On-Board Diagnostic Modules Product and Services

Table 125. Hella Gutmann On-Board Diagnostic Modules Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 126. Hella Gutmann Recent Developments/Updates

Table 127. Hella Gutmann Competitive Strengths & Weaknesses

Table 128. ETAS Basic Information, Manufacturing Base and Competitors

Table 129. ETAS Major Business

Table 130. ETAS On-Board Diagnostic Modules Product and Services

Table 131. ETAS On-Board Diagnostic Modules Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 132. ETAS Recent Developments/Updates

Table 133. ETAS Competitive Strengths & Weaknesses

Table 134. Horiba Basic Information, Manufacturing Base and Competitors

Table 135. Horiba Major Business

Table 136. Horiba On-Board Diagnostic Modules Product and Services

Table 137. Horiba On-Board Diagnostic Modules Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 138. Horiba Recent Developments/Updates

Table 139. Horiba Competitive Strengths & Weaknesses

Table 140. Marelli Basic Information, Manufacturing Base and Competitors

Table 141. Marelli Major Business

Table 142. Marelli On-Board Diagnostic Modules Product and Services

Table 143. Marelli On-Board Diagnostic Modules Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 144. Marelli Recent Developments/Updates

Table 145. Marelli Competitive Strengths & Weaknesses

Table 146. SPX Technologies Basic Information, Manufacturing Base and Competitors

Table 147. SPX Technologies Major Business

Table 148. SPX Technologies On-Board Diagnostic Modules Product and Services

Table 149. SPX Technologies On-Board Diagnostic Modules Production (K Units), Price

(US\$/Unit), Production Value (USD Million), Gross Margin and Market Share
(2021-2026)

Table 150. SPX Technologies Recent Developments/Updates

Table 151. SPX Technologies Competitive Strengths & Weaknesses

Table 152. KPIT Technologies Basic Information, Manufacturing Base and Competitors

Table 153. KPIT Technologies Major Business

Table 154. KPIT Technologies On-Board Diagnostic Modules Product and Services

Table 155. KPIT Technologies On-Board Diagnostic Modules Production (K Units),
Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share
(2021-2026)

Table 156. KPIT Technologies Recent Developments/Updates

Table 157. KPIT Technologies Competitive Strengths & Weaknesses

Table 158. Vector Informatik Basic Information, Manufacturing Base and Competitors

Table 159. Vector Informatik Major Business

Table 160. Vector Informatik On-Board Diagnostic Modules Product and Services

Table 161. Vector Informatik On-Board Diagnostic Modules Production (K Units), Price
(US\$/Unit), Production Value (USD Million), Gross Margin and Market Share
(2021-2026)

Table 162. Vector Informatik Recent Developments/Updates

Table 163. Vector Informatik Competitive Strengths & Weaknesses

Table 164. Global Key Players of On-Board Diagnostic Modules Upstream (Raw
Materials)

Table 165. Global On-Board Diagnostic Modules Typical Customers

Table 166. On-Board Diagnostic Modules Typical Distributors

List Of Figures

LIST OF FIGURES

Figure 1. On-Board Diagnostic Modules Picture

Figure 2. World On-Board Diagnostic Modules Production Value: 2021 & 2025 & 2032, (USD Million)

Figure 3. World On-Board Diagnostic Modules Production Value and Forecast (2021-2032) & (USD Million)

Figure 4. World On-Board Diagnostic Modules Production (2021-2032) & (K Units)

Figure 5. World On-Board Diagnostic Modules Average Price (2021-2032) & (US\$/Unit)

Figure 6. World On-Board Diagnostic Modules Production Value Market Share by Region (2021-2032)

Figure 7. World On-Board Diagnostic Modules Production Market Share by Region (2021-2032)

Figure 8. North America On-Board Diagnostic Modules Production (2021-2032) & (K Units)

Figure 9. Europe On-Board Diagnostic Modules Production (2021-2032) & (K Units)

Figure 10. China On-Board Diagnostic Modules Production (2021-2032) & (K Units)

Figure 11. Japan On-Board Diagnostic Modules Production (2021-2032) & (K Units)

Figure 12. South Korea On-Board Diagnostic Modules Production (2021-2032) & (K Units)

Figure 13. India On-Board Diagnostic Modules Production (2021-2032) & (K Units)

Figure 14. Mexico On-Board Diagnostic Modules Production (2021-2032) & (K Units)

Figure 15. On-Board Diagnostic Modules Market Drivers

Figure 16. Factors Affecting Demand

Figure 17. World On-Board Diagnostic Modules Consumption (2021-2032) & (K Units)

Figure 18. World On-Board Diagnostic Modules Consumption Market Share by Region (2021-2032)

Figure 19. United States On-Board Diagnostic Modules Consumption (2021-2032) & (K Units)

Figure 20. China On-Board Diagnostic Modules Consumption (2021-2032) & (K Units)

Figure 21. Europe On-Board Diagnostic Modules Consumption (2021-2032) & (K Units)

Figure 22. Japan On-Board Diagnostic Modules Consumption (2021-2032) & (K Units)

Figure 23. South Korea On-Board Diagnostic Modules Consumption (2021-2032) & (K Units)

Figure 24. ASEAN On-Board Diagnostic Modules Consumption (2021-2032) & (K Units)

Figure 25. India On-Board Diagnostic Modules Consumption (2021-2032) & (K Units)

Figure 26. Producer Shipments of On-Board Diagnostic Modules by Manufacturer

Revenue (\$MM) and Market Share (%): 2025

Figure 27. Global Four-firm Concentration Ratios (CR4) for On-Board Diagnostic Modules Markets in 2025

Figure 28. Global Four-firm Concentration Ratios (CR8) for On-Board Diagnostic Modules Markets in 2025

Figure 29. United States VS China: On-Board Diagnostic Modules Production Value Market Share Comparison (2021 & 2025 & 2032)

Figure 30. United States VS China: On-Board Diagnostic Modules Production Market Share Comparison (2021 & 2025 & 2032)

Figure 31. United States VS China: On-Board Diagnostic Modules Consumption Market Share Comparison (2021 & 2025 & 2032)

Figure 32. United States Based Manufacturers On-Board Diagnostic Modules Production Market Share 2025

Figure 33. China Based Manufacturers On-Board Diagnostic Modules Production Market Share 2025

Figure 34. Rest of World Based Manufacturers On-Board Diagnostic Modules Production Market Share 2025

Figure 35. World On-Board Diagnostic Modules Production Value by Type, (USD Million), 2021 & 2025 & 2032

Figure 36. World On-Board Diagnostic Modules Production Value Market Share by Type in 2025

Figure 37. Emission-Focused Diagnostic Modules

Figure 38. Full Vehicle Health Monitoring Modules

Figure 39. World On-Board Diagnostic Modules Production Market Share by Type (2021-2032)

Figure 40. World On-Board Diagnostic Modules Production Value Market Share by Type (2021-2032)

Figure 41. World On-Board Diagnostic Modules Average Price by Type (2021-2032) & (US\$/Unit)

Figure 42. World On-Board Diagnostic Modules Production Value by Regulatory, (USD Million), 2021 & 2025 & 2032

Figure 43. World On-Board Diagnostic Modules Production Value Market Share by Regulatory in 2025

Figure 44. OBD-I Modules

Figure 45. OBD-II Modules

Figure 46. World On-Board Diagnostic Modules Production Market Share by Regulatory (2021-2032)

Figure 47. World On-Board Diagnostic Modules Production Value Market Share by Regulatory (2021-2032)

- Figure 48. World On-Board Diagnostic Modules Average Price by Regulatory (2021-2032) & (US\$/Unit)
- Figure 49. World On-Board Diagnostic Modules Production Value by Application, (USD Million), 2021 & 2025 & 2032
- Figure 50. World On-Board Diagnostic Modules Production Value Market Share by Application in 2025
- Figure 51. Gasoline Vehicles
- Figure 52. Diesel Vehicles
- Figure 53. Hybrid Electric Vehicles
- Figure 54. Battery Electric Vehicles
- Figure 55. Hydrogen Fuel Cell Vehicles
- Figure 56. World On-Board Diagnostic Modules Production Market Share by Application (2021-2032)
- Figure 57. World On-Board Diagnostic Modules Production Value Market Share by Application (2021-2032)
- Figure 58. World On-Board Diagnostic Modules Average Price by Application (2021-2032) & (US\$/Unit)
- Figure 59. On-Board Diagnostic Modules Industry Chain
- Figure 60. On-Board Diagnostic Modules Procurement Model
- Figure 61. On-Board Diagnostic Modules Sales Model
- Figure 62. On-Board Diagnostic Modules Sales Channels, Direct Sales, and Distribution
- Figure 63. Methodology
- Figure 64. Research Process and Data Source

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