

Global On-Board Diagnostic Modules Market 2026 by Manufacturers, Regions, Type and Application, Forecast to 2032

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Abstracts

According to our (Global Info Research) latest study, the global On-Board Diagnostic Modules market size was valued at US\$ 3519 million in 2025 and is forecast to a readjusted size of US\$ 5708 million by 2032 with a CAGR of 7.1% during review period.

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., NOx, 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 is a detailed and comprehensive analysis for global On-Board Diagnostic Modules market. Both quantitative and qualitative analyses are presented by manufacturers, by region & country, by Type and by Application. As the market is constantly changing, this report explores the competition, supply and demand trends, as well as key factors that contribute to its changing demands across many markets. Company profiles and product examples of selected competitors, along with market share estimates of some of the selected leaders for the year 2025, are provided.

Key Features:

Global On-Board Diagnostic Modules market size and forecasts, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2021-2032

Global On-Board Diagnostic Modules market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2021-2032

Global On-Board Diagnostic Modules market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2021-2032

Global On-Board Diagnostic Modules market shares of main players, shipments in revenue (\$ Million), sales quantity (K Units), and ASP (US\$/Unit), 2021-2026

The Primary Objectives in This Report Are:

To determine the size of the total market opportunity of global and key countries

To assess the growth potential for On-Board Diagnostic Modules

To forecast future growth in each product and end-use market

To assess competitive factors affecting the marketplace

This report profiles key players in the global On-Board Diagnostic Modules market based on the following parameters - company overview, sales quantity, revenue, 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.

Market Segmentation

On-Board Diagnostic Modules market is split by Type and by Application. For the period 2021-2032, the growth among segments provides accurate calculations and forecasts for consumption value by Type, and by Application in terms of volume and value. This analysis can help you expand your business by targeting qualified niche markets.

Market segment by Type

Emission-Focused Diagnostic Modules

Full Vehicle Health Monitoring Modules

Market segment by Regulatory

OBD-I Modules

OBD-II Modules

Market segment by Application

Gasoline Vehicles

Diesel Vehicles

Hybrid Electric Vehicles

Battery Electric Vehicles

Hydrogen Fuel Cell Vehicles

Major players covered

Bosch

Continental

Denso

BorgWarner

ACTIA Group

Softing

TEXA

OBD Solutions

iWave Systems

Hella Gutmann

ETAS

Horiba

Marelli

SPX Technologies

KPIT Technologies

Vector Informatik

Market segment by region, regional analysis covers

North America (United States, Canada, and Mexico)

Europe (Germany, France, United Kingdom, Russia, Italy, and Rest of Europe)

Asia-Pacific (China, Japan, Korea, India, Southeast Asia, and Australia)

South America (Brazil, Argentina, Colombia, and Rest of South America)

Middle East & Africa (Saudi Arabia, UAE, Egypt, South Africa, and Rest of Middle East & Africa)

The content of the study subjects, includes a total of 15 chapters:

Chapter 1, to describe On-Board Diagnostic Modules product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of On-Board Diagnostic Modules, with price, sales quantity, revenue, and global market share of On-Board Diagnostic Modules from 2021 to 2026.

Chapter 3, the On-Board Diagnostic Modules competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the On-Board Diagnostic Modules breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2021 to 2032.

Chapter 5 and 6, to segment the sales by Type and by Application, with sales market share and growth rate by Type, by Application, from 2021 to 2032.

Chapter 7, 8, 9, 10 and 11, to break the sales data at the country level, with sales quantity, consumption value, and market share for key countries in the world, from 2021 to 2026. and On-Board Diagnostic Modules market forecast, by regions, by Type, and by Application, with sales and revenue, from 2027 to 2032.

Chapter 12, market dynamics, drivers, restraints, trends, and Porters Five Forces analysis.

Chapter 13, the key raw materials and key suppliers, and industry chain of On-Board Diagnostic Modules.

Chapter 14 and 15, to describe On-Board Diagnostic Modules sales channel, distributors, customers, research findings and conclusion.

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