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Automotive Engine Management System - Market Share Analysis, Industry Trends & Statistics, Growth Forecasts (2024 - 2029)

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Abstracts

The Automotive Engine Management System Market size is estimated at USD 66.20 billion in 2024, and is expected to reach USD 84.80 billion by 2029, growing at a CAGR of 4.20% during the forecast period (2024-2029).

Over the long term, the growing consumer trend toward fuel-efficient vehicles has encouraged manufacturers to develop advanced components that control engine operation. The enactment of stringent emission norms is likely to increase significantly due to the rise in greenhouse gas levels globally.

With the growth in sales and production of passenger cars, the global automotive sector has been witnessing exponential growth year on year. For instance, the sales of passenger cars in India increased from 14,67,039 to 17,47,376, utility vehicles from 14,89,219 to 20,03,718, and vans from 1,13,265 to 1,39,020 units in FY 2022-23, compared to the previous year.

With the growth in demand for vehicles, engine management companies are adopting strategic moves such as product launches, capacity expansion, and mergers to cater to the high demand.

Key Highlights

In July 2023, Valeo expanded its ultrasonic sensor manufacturing capacity to 7 million units at the Sanand plant. The first production line at Sanand was started in November 2021. With this additional line, the total production capacity increased from 3 million to 7 million units annually.

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In January 2023, Sensata showcased its broad range of mission-critical sensors and electrical protection solutions for automotive and heavy vehicle off-road (HVOR) applications.

North America is the fastest automotive engine management systems market in the world. However, due to the more significant automotive sales, especially in China and India, the automotive engine management systems in Asia-Pacific hold the major market share. Customers in India and China are becoming more aware of enhancing their vehicles' performance, which is expected to boost the automotive engine management system market.

Automotive Engine Management System Market Trends

Passenger Cars Holds Highest Market Share

Passenger cars have become exceptionally popular among consumers due to features like their stylish and compact design and economic value. The rise in the demand for passenger cars is also influenced by the increasing middle-class population and the enhanced standard of living in emerging countries.

The rise in demand for sports utility vehicles (SUVs) creates profitable opportunities for market players as the sale of sports utility vehicles accounts for more than 50% of passenger car sales in India. The demand for sports utility vehicles in countries like India and China surged due to various factors, such as buying preference for bigger cars with high ground clearance.

Furthermore, the increase in demand for electric vehicles due to tax subsidies and expansion in charger infrastructure also resulted in the growth of the market. Electric car sales in India in the first quarter of 2023 were double what they were in the same period in 2022.

According to the International Council of Clean Transportation, the sales of electric vehicles in the United States crossed 1 million. Notably, the sales through the first three quarters of 2023 were about 58% higher than the same period in 2022.

With the growth in the passenger car segment, demand for various engine management systems, such as electronic control units and engine sensors, is expected to continue to grow exponentially in the future. With the ongoing trend of advanced features related to

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safety and convenience, cars are becoming more feature-loaded. Moreover, the rise in demand for autonomous and electric vehicles is anticipated to create new opportunities for engine management systems.

Companies are also focusing on creating technologically advanced products and expanding their capacity to cater to the high demand in the market. For example, in June 2023, MicroVision Inc., a leader in MEMS-based solid-state automotive lidar and advanced driver-assistance systems (ADAS) solutions, launched its solid-state flash-based MOVIA lidar sensor. The small form factor and light weight of the MOVIA sensor make it appealing for a wide variety of applications.

Asia-Pacific Holds the Highest Market Share

Asia-Pacific is expected to hold a major market share during the forecast period. The regional growth is mainly driven by the top-producing automotive countries like India, China, and Japan.

Other driving factors include the increase in demand for automobiles that provide enhanced driving experiences, comfort, and safety and an increase in demand for fuel-efficient engines. The rise in the sale of electric vehicles has further boosted the use of engine management systems, as countries like India are promoting their adoption through strict regulations, subsidies, tax credits, and other incentives.

The Ministry of Road Transport and Highways (MoRTH) in India made it mandatory for vehicles to comply with fuel consumption standards from 2023 to make vehicles fuel efficient. The new guidelines on flex-fuel vehicles contribute to the growth of ICE engines.

China is leading the global market share in the engine management system (EMS) segment, supplying fuel pumps and injectors. New emission norms for diesel engines could mean additional opportunities for Chinese engine management companies.

Apart from conventional IC engine vehicles, the demand for electric vehicles is anticipated to boost the growth of the market. With stringent emission regulations across every region, the demand for electric vehicles is likely to increase during the forecast period. According to the International Council of Clean Transportation, China remained the world’s largest EV market, with approximately 3 million EVs sold in 2023

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As of January 2024, Chinese manufacturers continue to lead the charge in lidar innovation of autonomous driving technology and have filed a staggering 25,957 patent applications related to lidar since 2000, surpassing American and Japanese companies.

Automotive Engine Management System Industry Overview

The automotive engine management system market is consolidated and led by globally and regionally established players. The companies adopt strategies such as new product launches, collaborations, and mergers to sustain their market positions.

For instance, in April 2023, TTTech Auto launched the N4 Network Controller, a high-performance ECU with advanced networking capabilities. The N4 is designed to play a central role in modern automotive E/E architectures, paving the way to software-defined vehicles.

Some of the major players in the market include Continental AG, DENSO Corporation, DENSO Corporation, Valeo, and Robert Bosch GmbH.

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