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Global Automotive EEPROM Memory 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 Automotive EEPROM Memory market size was valued at US$ 419 million in 2025 and is forecast to a readjusted size of US$ 866 million by 2032 with a CAGR of 11.1% during review period.

EEPROM (electrically erasable programmable read-only memory) is user-modifiable read-only memory (ROM) that can be erased and reprogrammed (written to) repeatedly through the application of higher than normal electrical voltage. An EEPROM chip has to be erased and reprogrammed in its entirety, not selectively. It also has a limited life - that is, the number of times it can be reprogrammed is limited to tens or hundreds of thousands of times. In an EEPROM that is frequently reprogrammed while the computer is in use, the life of the EEPROM can be an important design consideration.

Automotive-grade EEPROM (Electrically Erasable Programmable Read-Only Memory) is a non-volatile memory chip designed for automotive electronics, which must meet the requirements of high reliability and long life in extreme environments.

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The increase in the intelligence and networking of automobiles has accelerated the expansion of the automotive memory chip market. The substantial increase in the number and resolution of in-vehicle image sensors continues to push up the demand for data storage, and the evolution to high-level autonomous driving above L3 and L4 also places higher and higher requirements on in-vehicle information aggregation and

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transmission. All of these directly point to the demand for automotive memory chips.

As a general-purpose non-volatile memory chip, EEPROM (electrically erasable programmable read-only memory) has been constantly refreshing its presence in vehicle storage applications in recent years due to its high and low temperature reliability, 100 years of data retention capability and 4 million erase and write cycles. Applications such as ADAS, smart cockpit, smart networking, three-electric system, switch micro-motor, chassis transmission, etc. have driven the demand for EEPROM. Data shows that the use of EEPROM on a traditional fuel vehicle is about 15-20, while a smart electric vehicle requires 30-40, and the demand for EEPROM per vehicle has doubled.

As one of the important products in memory chips, EEPROM has obvious performance advantages - it can retain stored information data in the event of power failure, and has the advantages of small size, low power consumption, simple interface, and online rewrite. It is widely used in mobile phones, computers and peripherals, industrial control, wearable devices and automotive electronics.

In terms of scale, consumer electronics, industry and automobiles are the three main subdivided application markets of EEPROM. However, judging from the industrial development trend in recent years, the high growth period of the smartphone market has come to an end. Recent market data also show that the current mobile phone market is saturated and shipments have also declined to a certain extent. In contrast, the growth rate of automotive electronics is constantly increasing. Industry insiders pointed out that the transformation of automobiles to electrification and intelligence, from 'mechanical + fuel' to 'electrical + battery' structure, has brought about changes in the entire vehicle architecture, which has also brought about a large increase in the demand for electronic devices. Due to the better consistency and stability of electronic devices, the speed of updating and iteration of electric vehicle models will be faster than that of traditional vehicles, which will further drive the demand for automotive electronics. These also further drive the growth of the EEPROM market size.

The automotive field is the most demanding application scenario. Compared with consumer-grade and industrial-grade chips, automotive chips have higher requirements in terms of reliability, extreme temperature difference, durability and other indicators. Specifically for automotive-grade storage chips, indicators such as durability and reliability and stable data reading and writing in different working environments have become the main factors for measuring performance. EEPROM is suitable for small-

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scale storage needs that require multiple modifications. The product features are low standby power consumption, high flexibility, and high reliability. The capacity is between 1Kbit-1024Kbit, and each byte can be accessed. The byte or page update time is less than 5 milliseconds, and the erase and write performance can reach more than 1 million times. In recent years, the potential of EEPROM 'on board' has been continuously released. At present, it has been widely used in smart cockpits, three-electric systems, visual perception, chassis transmission and micro-motors, and dozens of subordinate sub-modules. Providing highly reliable EEPROM has also become a common demand of more and more automakers and Tier1.

From the perspective of manufacturers, the technical threshold of automotive-grade EEPROM is relatively high worldwide. The market is currently dominated by overseas companies. The world's leading automotive-grade EEPROM manufacturers include STMicroelectronics (ST), ONSEMI, Microchip Technology (Microchip), ABLIC, ROHM, etc. These foreign manufacturers have formed a relatively mature automotive-grade EEPROM product series, with relatively obvious advantages in technical level and customer resources, and occupy a relatively high market share. Among them, STMicroelectronics has a market share of 35%, making it the world's largest EEPROM memory chip manufacturer. In recent years, local EEPROM memory chips have been rising, with a number of companies such as Juchen Co., Ltd., Purui Semiconductor, Fudan Microelectronics, Shanghai Belling, and Huahong Semiconductor. It is expected that industry competition will become more intense in the next few years, especially in the Chinese market.

This report is a detailed and comprehensive analysis for global Automotive EEPROM Memory market. Both quantitative and qualitative analyses are presented by manufacturers, by region & country, by Interfaces 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 Automotive EEPROM Memory market size and forecasts, in consumption value ($ Million), sales quantity (K Units), and average selling prices (US$/Unit), 2021-2032

Global Automotive EEPROM Memory market size and forecasts by region and country, in consumption value ($ Million), sales quantity (K Units), and average selling prices

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(US$/Unit), 2021-2032

Global Automotive EEPROM Memory market size and forecasts, by Interfaces Type and by Application, in consumption value ($ Million), sales quantity (K Units), and average selling prices (US$/Unit), 2021-2032

Global Automotive EEPROM Memory 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 Automotive EEPROM Memory
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 Automotive EEPROM Memory 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 STMicroelectronics, Microchip Technology, Giantec Semiconductor, onsemi, ABLIC Inc., Puya Semiconductor, Fudan Microelectronics, ROHM, Shanghai Belling, Hua Hong Semiconductor, etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

Market Segmentation

Automotive EEPROM Memory market is split by Interfaces Type and by Application. For the period 2021-2032, the growth among segments provides accurate calculations and forecasts for consumption value by Interfaces 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 Interfaces Type

SPI EEPROM

I?C EEPROM

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Microwire EEPROM

Market segment by Density

?16Kbit

32Kbit

64Kbit

128Kbit

256Kbit

512Kbit

?1Mbit

Market segment by Application

Fuel Vehicles

New Energy Vehicles

Major players covered

STMicroelectronics

Microchip Technology

Giantec Semiconductor

onsemi

ABLIC Inc.

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Puya Semiconductor

Fudan Microelectronics

ROHM

Shanghai Belling

Hua Hong Semiconductor

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 Automotive EEPROM Memory product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Automotive EEPROM Memory, with price, sales quantity, revenue, and global market share of Automotive EEPROM Memory from 2021 to 2026.

Chapter 3, the Automotive EEPROM Memory competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Automotive EEPROM Memory 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 Interfaces Type and by Application, with sales

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market share and growth rate by Interfaces 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 Automotive EEPROM Memory market forecast, by regions, by Interfaces 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 Automotive EEPROM Memory.

Chapter 14 and 15, to describe Automotive EEPROM Memory sales channel, distributors, customers, research findings and conclusion.

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