

Global Automotive-grade Non-Volatile Memory Chips Market 2026 by Manufacturers, Regions, Type and Application, Forecast to 2032

<https://marketpublishers.com/r/GD0C05FE2489EN.html>

Date: August 2026

Pages: 136

Price: US\$ 3,480.00 (Single User License)

ID: GD0C05FE2489EN

Abstracts

According to our (Global Info Research) latest study, the global Automotive-grade Non-Volatile Memory Chips market size was valued at US\$ 2974 million in 2025 and is forecast to a readjusted size of US\$ 6110 million by 2032 with a CAGR of 10.6% during review period.

Automotive-grade Non-Volatile Memory Chips refer to semiconductor memory devices used in vehicle electronic systems to retain firmware, boot code, configuration parameters, calibration data, log files and security data after power-off. The category mainly covers automotive-grade NOR Flash, NAND Flash, SPI NAND, EEPROM, eMMC, UFS, BGA embedded flash storage, MRAM and FRAM. Key upstream inputs include silicon wafers, photoresists, electronic gases, wet chemicals, sputtering targets, packaging substrates, lead frames, bonding materials, test probes, controller IP, ECC algorithms and automotive-grade reliability qualification services. Major downstream customers include automakers, Tier 1 automotive electronics suppliers, cockpit domain controller makers, ADAS and autonomous driving system suppliers, T-Box and gateway vendors, BMS and powertrain control suppliers, body electronics companies and sensor module manufacturers. Based on factory-gate pricing and a narrow scope covering discrete memory ICs and embedded managed NAND devices, global effective automotive-grade capacity in 2025 is estimated at about 4.8 billion units, shipments at about 3.647 billion units, average selling price at about USD0.79 per unit, and mainstream gross margin at around 34%?46%.

From the current market perspective, automotive-grade non-volatile memory chips have expanded from low-density parameter storage in traditional ECUs to higher-value applications such as digital cockpits, instrument clusters, ADAS, telematics and domain

controllers. EEPROM, NOR Flash and small-density SPI NAND remain widely used in body electronics, BMS, camera modules and sensors, where demand is stable and qualification cycles are long. At the same time, intelligent cockpits and assisted driving platforms are driving higher adoption of eMMC, UFS and high-capacity NAND-based embedded storage. The market is therefore driven less by vehicle production alone and more by electronic architecture upgrades, software complexity and the growing use of OTA functions.

From the supply-side perspective, the global market is shaped by memory IDMs, specialty non-volatile memory vendors, embedded storage solution providers and emerging local suppliers. Samsung, Micron, Kioxia and Sandisk have strong positions in UFS, eMMC and NAND-based managed storage. Infineon, Macronix, Winbond and GigaDevice are more competitive in automotive NOR Flash, SPI NAND and code storage. Microchip, ST, ROHM, onsemi, Giantec and Puya mainly serve EEPROM and small-density high-reliability memory applications. The core barriers are not limited to wafer fabrication and packaging, but also include AEC-Q100 qualification, PPAP documentation, long-term supply, low failure rates, vehicle platform design-in and functional safety support.

Future technology evolution will follow three major directions. First, high-performance vehicle storage will continue to migrate from eMMC to UFS for intelligent cockpits, integrated cockpit-driving platforms, domain controllers and autonomous driving compute systems. Second, high-performance NOR Flash and SPI NAND will continue to increase density, speed and security features for secure boot, code execution, OTA updates and event logging. Third, EEPROM, MRAM and FRAM will retain long-term demand in power-loss protection, frequent-write, event data recording and configuration storage applications. As automotive platforms become more centralized, memory devices will increasingly compete on interface speed, data integrity, thermal stability, cybersecurity and lifecycle management rather than storage density alone.

Growth momentum mainly comes from higher NEV penetration, richer cockpit configurations, rising ADAS installation rates, software-defined vehicles, OTA update adoption and the automotive industry's focus on supply chain resilience. Key constraints include long automotive qualification cycles, high quality liability, strict platform entry barriers, cyclical memory pricing, NAND supply-demand volatility and price pressure in some low-density EEPROM and NOR products. For new entrants, passing automotive qualification is only the first step; entering Tier 1 and automaker mass-production platforms usually takes several years, making reliability records and long-term customer relationships more important than short-term price competition.

This report is a detailed and comprehensive analysis for global Automotive-grade Non-Volatile Memory Chips 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 Automotive-grade Non-Volatile Memory Chips market size and forecasts, in consumption value (\$ Million), sales quantity (Million Units), and average selling prices (US\$/Unit), 2021-2032

Global Automotive-grade Non-Volatile Memory Chips market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (Million Units), and average selling prices (US\$/Unit), 2021-2032

Global Automotive-grade Non-Volatile Memory Chips market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (Million Units), and average selling prices (US\$/Unit), 2021-2032

Global Automotive-grade Non-Volatile Memory Chips market shares of main players, shipments in revenue (\$ Million), sales quantity (Million 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-grade Non-Volatile Memory Chips

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-grade Non-Volatile Memory

Chips 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 Micron Technology, Samsung Electronics, Kioxia, Sandisk, Infineon Technologies, Winbond Electronics, Macronix International, Microchip Technology, STMicroelectronics, ROHM, etc.

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

Market Segmentation

Automotive-grade Non-Volatile Memory Chips 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

NOR Flash

NAND Flash

Managed NAND Storage

EEPROM

Other

Market segment by Interface

Serial Interface

Parallel Interface

eMMC

Other

Market segment by Density Range

Low Density

Medium Density

High Density

Market segment by Application

Infotainment and Digital Cockpit

ADAS and Autonomous Driving

Telematics and Gateway

Powertrain and BMS

Body and Safety Electronics

Other

Major players covered

Micron Technology

Samsung Electronics

Kioxia

Sandisk

Infineon Technologies

Winbond Electronics

Macronix International

Microchip Technology

STMicroelectronics

ROHM

onsemi

GigaDevice Semiconductor

Integrated Silicon Solution

Puya Semiconductor

Giantec Semiconductor

Silicon Motion Technology

Phison Electronics

Everspin Technologies

RAMXEED

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-grade Non-Volatile Memory Chips product scope, market overview, market estimation caveats and base year.

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

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

Chapter 4, the Automotive-grade Non-Volatile Memory Chips 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 Automotive-grade Non-Volatile Memory Chips 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 Automotive-grade Non-Volatile Memory Chips.

Chapter 14 and 15, to describe Automotive-grade Non-Volatile Memory Chips sales channel, distributors, customers, research findings and conclusion.

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