

Global Latch Ics for Automobile 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 Latch Ics for Automobile market size was valued at US\$ 322 million in 2025 and is forecast to a readjusted size of US\$ 516 million by 2032 with a CAGR of 6.9% during review period.

Automotive latch ICs are not merely narrow digital logic latches, but a group of automotive-grade chips built around vehicle closure systems. Their core task is to enable lock and unlock actuation, position detection, speed and direction sensing, anti-pinch control, and fault diagnostics in door locks, tailgates, sliding doors, power windows, sunroofs, seats, and other body actuators. One side of this product group extends to execution-control devices such as multi-half-bridge, full-bridge, and door-zone driver ICs, which emphasize SPI communication, PWM control, current limiting, open-load and short-circuit diagnostics, and centralized control of door-lock motors and multiple loads. The other side extends to Hall-effect latch and dual-latch magnetic sensor ICs, which emphasize pole recognition, low jitter, 90-degree phase shift, wide input-voltage capability, high-temperature stability, open-drain or dual-channel outputs, and reliable speed and direction sensing. The main customers are OEMs, body electronics and door-module Tier 1 suppliers, and motor and actuator module makers. Common delivery forms include long-term supply of standard part numbers, platform-based product family selection, reference-design support, and functional-safety enablement. As automotive E/E architectures evolve toward door-zone and zonal control, closure-system control is shifting from discrete driving and discrete sensing toward co-designed drive-and-sense solutions, making suppliers with automotive qualification, functional safety, EMC robustness, and highly reliable packaging more likely to win long-term design-ins.

The core change in automotive latch ICs is that they have evolved from a narrowly defined door-lock chip concept into a body-electronics subsegment that covers both actuation and sensing for closure systems. Official product pages show that suppliers such as ST, onsemi, Infineon, and Toshiba focus on door-lock motors, door modules, sliding doors, and multi-load actuation, emphasizing half-bridge and full-bridge topologies, SPI, PWM, current feedback, and diagnostics. In contrast, TI, ROHM, ABLIC, Melexis, Diodes, NOVOSENSE, and Semiment focus more on Hall-effect latches, dual latches, speed-and-direction outputs, and wide-voltage, high-temperature sensing, indicating that the industry is clearly developing along two parallel tracks, namely drive-side upgrading and sense-side upgrading. In the past, these products were mainly designed to complete a single action. Today, they are increasingly expected to execute the action, confirm status, identify faults, and adapt to harsh automotive environments within zonal body-control architectures. Their value is therefore no longer limited to replacing relays or mechanical switches, but extends to improving closure-system reliability, reducing unintended operation risk, cutting harness complexity, and supporting the shift toward zonal E/E architectures. For that reason, automotive qualification, high-temperature stability, EMC robustness, low jitter, and functional safety are moving from nice-to-have attributes to basic entry requirements for front-end automotive platforms.

From the demand side, the certainty of this segment comes from two layers. First, closure systems themselves are high-frequency, high-experience, and high-safety body functions. Door locks, tailgates, sliding doors, power windows, sunroofs, seat positioning, and anti-pinch functions affect both convenience and occupant safety, which means OEMs are unlikely to accept unstable components at these nodes. Second, regulations and standards continue to raise system-design requirements. FMVSS 118 explicitly requires power-operated windows, partitions, and roof-panel systems to minimize the likelihood of injury from unintended operation. UNECE Regulation No. 11 has long covered door latches and door-retention components, while ISO 26262 provides a unified framework for automotive functional safety. In this context, chip vendors are no longer expected to deliver only the basic function. They are increasingly required to integrate diagnostics, redundancy, direction detection, temperature-drift control, and abnormal-condition protection into the product definition itself. This is why official pages increasingly highlight terms such as AEC-Q100, ASIL B, ISO26262 Ready, Grade 0 temperature capability, and dual speed-and-direction outputs, because closure systems are gradually shifting from traditional comfort features into critical body-domain nodes in the intelligent-vehicle era.

From the perspective of industry structure and growth outlook, this segment is unlikely

to become the largest category within automotive semiconductors in the near term, but it is well positioned to deliver steady growth in semiconductor content per vehicle and attract a rising number of qualified suppliers. ACEA reported that global car production reached about 75.5 million units in 2024 and global car sales reached about 74.6 million units, while the IEA reported that global electric-car sales exceeded 17 million in 2024. This means more new vehicles are being equipped with electric actuators, intelligent closures, and additional body-sensing nodes. On the supply side, the market is no longer defined only by stable supply from established European, American, and Japanese analog players. Chinese domestic suppliers are also moving rapidly into automotive Hall sensors, position detection, and functionally safe sensing devices. As a result, competition is shifting away from simple parameter comparison toward broader platform coverage, automotive validation depth, reference-design support, delivery consistency, and co-development capability with customers. Over the next few years, the most promising opportunities will not lie in low-end generic substitution, but in high-reliability drive-plus-sense combinations for door-zone control, tailgate and sliding-door systems, e-latches, electronic steering-column locks, and seat and anti-pinch modules. This makes the segment more attractive when viewed through the lens of high value-added, strong validation barriers, and long front-end automotive design cycles.

This report is a detailed and comprehensive analysis for global Latch Ics for Automobile 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 Latch Ics for Automobile market size and forecasts, in consumption value (\$ Million), sales quantity (Million Units), and average selling prices (US\$/Unit), 2021-2032

Global Latch Ics for Automobile 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 Latch Ics for Automobile 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 Latch Ics for Automobile 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 Latch Ics for Automobile

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 Latch Ics for Automobile 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 ABLIC, STMicroelectronics, Melexis, Texas Instruments, Allegro MicroSystems, onsemi, Infineon Technologies, Diodes Incorporated, Toshiba Electronic Devices & Storage, ROHM Semiconductor, etc.

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

Market Segmentation

Latch Ics for Automobile 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

Bipolar

Unipolar

Market segment by Product Functional Role

Actuation Driver IC

Single-Channel Latch Sensing IC

Dual-Channel Latch Sensing IC

Other

Market segment by Package Form Factor

Multi-Pin Power Package

Small Surface-Mount Package

Through-Hole Leaded Package

Other

Market segment by Application

ADAS

Encoders for Window Lifts

Seat Motors

Seat Belt Buckle Detector

Others

Major players covered

ABLIC

STMicroelectronics

Melexis

Texas Instruments

Allegro MicroSystems

onsemi

Infineon Technologies

Diodes Incorporated

Toshiba Electronic Devices & Storage

ROHM Semiconductor

NOVOSENSE Microelectronics Co., Ltd.

Semiment Technology Inc.

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 Latch Ics for Automobile product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Latch Ics for Automobile, with price, sales quantity, revenue, and global market share of Latch Ics for Automobile from 2021 to 2026.

Chapter 3, the Latch Ics for Automobile competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Latch Ics for Automobile 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 Latch Ics for Automobile 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 Latch Ics for Automobile.

Chapter 14 and 15, to describe Latch Ics for Automobile sales channel, distributors, customers, research findings and conclusion.

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