

# Global Automotive Driver Chips Supply, Demand and Key Producers, 2026-2032

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## Abstracts

The global Automotive Driver Chips market size is expected to reach \$ 17654 million by 2032, rising at a market growth of 8.3% CAGR during the forecast period (2026-2032).

In 2025, global automotive driver chip production capacity is approximately 3.5 billion units, with actual production reaching around 2.8 billion units. The average global market price is about US\$3.5 per unit. The market gross profit margin mainly ranges from 35% to 50%. Automotive driver chips are semiconductor devices designed to control and drive various electronic components and subsystems within vehicles. These chips convert low-power control signals from microcontrollers into higher-power outputs required to operate actuators, motors, LEDs, displays, and power devices. Automotive driver chips include categories such as motor drivers, LED drivers, gate drivers for power semiconductors, display drivers, and relay or solenoid drivers. They are engineered to meet stringent automotive standards, including high reliability, wide temperature ranges, electromagnetic compatibility (EMC), and functional safety requirements. With the rapid electrification and intelligentization of vehicles, driver chips are becoming increasingly critical in applications such as electric powertrains, advanced driver assistance systems (ADAS), in-vehicle infotainment, and body electronics. Modern automotive driver chips also integrate diagnostic, protection, and communication functions, enabling smarter and safer vehicle operation.

The upstream of the automotive driver chip industry chain includes semiconductor materials, wafer fabrication, IP cores, and EDA tools. Foundries and IDMs provide manufacturing services based on mature and specialty process nodes such as BCD (Bipolar-CMOS-DMOS) and power semiconductor technologies. The midstream focuses on chip design, packaging, and testing, where companies develop driver ICs with integrated protection, diagnostics, and communication interfaces. Advanced

packaging technologies improve thermal performance and reliability. The downstream applications cover a wide range of automotive systems, including powertrain, body electronics, lighting, infotainment, and safety systems. With the growth of electric vehicles and intelligent driving, demand for high-performance driver chips is increasing. In addition to OEM supply, long lifecycle support, automotive-grade certification, and quality assurance are critical aspects of the value chain.

The automotive driver chip market is experiencing strong growth driven by the rapid electrification and increasing electronic content in vehicles. Modern vehicles integrate a large number of electronic control units and actuators, all of which require reliable driver chips to function efficiently. The transition to electric vehicles is particularly accelerating demand for motor drivers and gate drivers used in power electronics systems such as inverters and battery management systems. Another key driver is the development of advanced driver assistance systems and intelligent cockpit technologies. These applications require sophisticated driver chips for displays, lighting, and sensor control, contributing to higher semiconductor content per vehicle. Supply chain resilience and localization are also important trends. Automakers are seeking stable and diversified chip supply sources to mitigate risks associated with semiconductor shortages. Meanwhile, chip manufacturers are investing in automotive-grade technologies and expanding production capacity to meet long-term demand. As vehicles continue to evolve toward electrification and intelligence, automotive driver chips will remain a critical enabling component.

This report studies the global Automotive Driver Chips production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Automotive Driver Chips and provides market size (US\$ million) and Year-over-Year (YoY) Growth, considering 2025 as the base year. This report explores demand trends and competition, as well as details the characteristics of Automotive Driver Chips that contribute to its increasing demand across many markets.

### **Highlights and key features of the study**

Global Automotive Driver Chips total production and demand, 2021-2032, (K Units)

Global Automotive Driver Chips total production value, 2021-2032, (USD Million)

Global Automotive Driver Chips production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (K Units), (based on production site)

Global Automotive Driver Chips consumption by region & country, CAGR, 2021-2032 & (K Units)

U.S. VS China: Automotive Driver Chips domestic production, consumption, key domestic manufacturers and share

Global Automotive Driver Chips production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (K Units)

Global Automotive Driver Chips production by Type, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

Global Automotive Driver Chips production by Application, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

This report profiles key players in the global Automotive Driver Chips market based on the following parameters - company overview, production, value, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Infineon Technologies, ST, NXP, TI, Onsemi, Broadcom, BYD, Inventchip, NOVOSENSE, Southchip, etc.

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

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the World Automotive Driver Chips market

### **Detailed Segmentation:**

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (K Units) and average price (US\$/Unit) by manufacturer, by Type, and by Application. Data is given for the years 2021-2032 by year with 2025 as the base year, 2026 as the estimate year, and 2027-2032 as the forecast year.

Global Automotive Driver Chips Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

#### Global Automotive Driver Chips Market, Segmentation by Type:

Motor

Gate

LED

Actuator

#### Global Automotive Driver Chips Market, Segmentation by Power Device:

MOSFET

IGBT

SiC/GaN

#### Global Automotive Driver Chips Market, Segmentation by Integration Level:

Discrete

Integrated

#### Global Automotive Driver Chips Market, Segmentation by Application:

Motor Drive Systems

Engine Control Units

Transmission Control

Steering Systems

Braking Systems

Body Control Systems

In-car Entertainment Systems

Intelligent Driver Assistance System

Other

#### Companies Profiled:

Infineon Technologies

ST

NXP

TI

Onsemi

Broadcom

BYD

Inventchip

NOVOSENSE

Southchip

JOULWATT

YCT Electronics

SG Micro

3PEAK

Awinic

Dioo Microcircuits

Chipown

Ingenic Semiconductor

Chipanalog Microelectronics

**Key Questions Answered:**

1. How big is the global Automotive Driver Chips market?
2. What is the demand of the global Automotive Driver Chips market?
3. What is the year over year growth of the global Automotive Driver Chips market?
4. What is the production and production value of the global Automotive Driver Chips market?
5. Who are the key producers in the global Automotive Driver Chips market?
6. What are the growth factors driving the market demand?

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