

# Global Automotive-Grade Charging Protection Chip Supply, Demand and Key Producers, 2026-2032

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## Abstracts

The global Automotive-Grade Charging Protection Chip market size is expected to reach \$ 520 million by 2032, rising at a market growth of 5.4% CAGR during the forecast period (2026-2032).

In 2025, global automotive-grade charging protection chip production capacity is 150,000,000 units, with production reaching approximately 117,000,000 units, with an average global market price of around US\$3 per unit. The market gross margin is mainly 35%–45%. Automotive-grade charging protection chips are integrated circuits designed specifically for automotive electronic systems. Their core function is to monitor the charging process of vehicle batteries (especially 12V lead-acid or lithium batteries) in real time. By accurately detecting voltage, current, and temperature parameters, they prevent battery damage from abnormal operating conditions such as overcharging, over-discharging, short circuits, and overheating, ensuring the safe, reliable, and long-life operation of the vehicle's power system. They must meet AEC-Q100 reliability certification and ISO 26262 functional safety standards, demonstrating high precision, high reliability, and anti-interference capabilities, serving as the 'safety sentinels' of the vehicle's battery management system. The upstream supply chain requires automotive-grade wafers and materials, the midstream requires AEC-Q100-certified design and testing, and the downstream involves Tier 1 suppliers and automakers. High production capacity is required to meet the scale demands of the automotive industry. The gross profit margin is moderate, about 30-40%, because it needs to bear the certification costs but avoid low-price competition at the consumer level.

The automotive-grade charging protection chip market is experiencing a wave of predictable growth driven by the electrification, intelligence, and high-reliability demands of vehicles. Its future prospects are deeply tied to the increasing penetration of new

energy vehicles (NEVs), the evolution of vehicle electronic and electrical architectures, and the development of advanced autonomous driving. The market is placing ever-higher demands on chip functional safety, accuracy, and reliability, driving the evolution of technology towards higher integration, smarter diagnostics, and greater robustness. Looking at the global regional landscape, the North American market, with its deep automotive electronics industry heritage, close collaboration between leading automakers and chip giants, and a well-established industry standards system, continues to lead high-end technological innovation and the implementation of cutting-edge applications. The European market, with its strong established vehicle brands, stringent regulatory certification system, and world-class industrial R&D capabilities, sets the global benchmark for functional safety, quality, and reliability. The Asia-Pacific market, particularly China, demonstrates the strongest growth momentum and strategic ambition. Its global presence in NEV production and consumption, rapidly maturing domestic supply chain, and proactive industrial policy support are collectively driving its emergence as a leading global innovation hub and large-scale application center. The essence of this competition is an all-round game of safety, reliability and cost. Leading participants are committed to meeting the next generation of smart cars' ultimate pursuit of energy security through chip-level innovation, system-level optimization and ecological collaboration.

This report studies the global Automotive-Grade Charging Protection Chip production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Automotive-Grade Charging Protection Chip 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-Grade Charging Protection Chip that contribute to its increasing demand across many markets.

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

Global Automotive-Grade Charging Protection Chip total production and demand, 2021-2032, (Million Units)

Global Automotive-Grade Charging Protection Chip total production value, 2021-2032, (USD Million)

Global Automotive-Grade Charging Protection Chip production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Million Units), (based on

production site)

Global Automotive-Grade Charging Protection Chip consumption by region & country, CAGR, 2021-2032 & (Million Units)

U.S. VS China: Automotive-Grade Charging Protection Chip domestic production, consumption, key domestic manufacturers and share

Global Automotive-Grade Charging Protection Chip production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Million Units)

Global Automotive-Grade Charging Protection Chip production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Million Units)

Global Automotive-Grade Charging Protection Chip production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Million Units)

This report profiles key players in the global Automotive-Grade Charging Protection Chip 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 Texas Instruments, Analog Devices, Infineon Technologies, STMicroelectronics, Renesas Electronics Corporation, ON Semiconductor, Microchip Technology, ROHM Semiconductor, Maxim Integrated, SGMICRO, 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-Grade Charging Protection Chip market

### **Detailed Segmentation:**

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (Million 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-Grade Charging Protection Chip Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

## Global Automotive-Grade Charging Protection Chip Market, Segmentation by Type:

Lithium-ion Battery

Solid-state Battery

Lead-acid Battery

## Global Automotive-Grade Charging Protection Chip Market, Segmentation by Integration Level:

Discrete

Integrated

## Global Automotive-Grade Charging Protection Chip Market, Segmentation by Protection Function:

Overvoltage

Overcurrent

Overtemperature

Global Automotive-Grade Charging Protection Chip Market, Segmentation by Application:

Traditional Fuel Vehicles

New Energy Vehicles

Companies Profiled:

Texas Instruments

Analog Devices

Infineon Technologies

STMicroelectronics

Renesas Electronics Corporation

ON Semiconductor

Microchip Technology

ROHM Semiconductor

Maxim Integrated

SGMICRO

Shenzhen Injoinic Technology

Guangdong Cellwise Microelectronics

Wuxi ETEK Microelectronics

Silergy

Shenzhen Kiwi Instruments

Shenzhen Sunmoon Microelectronics

**Key Questions Answered:**

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

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