

Global Automotive 48V eFuse Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Automotive 48V eFuse market size is expected to reach \$ 2303 million by 2032, rising at a market growth of 20.1% CAGR during the forecast period (2026-2032).

In 2025, global Automotive 48V eFuse production reached approximately 129.17 million units, with an average global market price of around USD 4.8 per unit.

The gross profit margin of major companies in the industry is between 32.54%-58.72%.

In 2025, the global production capacity of Automotive 48V eFuse was approximately 169.96 million units.

Automotive 48V eFuse is an electronic protection device used in 48V vehicle electrical architectures to replace or supplement traditional mechanical fuses and relays. It uses semiconductor switches, current sensing, thermal protection and control logic to provide fast overcurrent protection, short-circuit protection, load switching and diagnostic functions. The product is used in mild hybrid vehicles, electric auxiliaries, power distribution modules, pumps, compressors, heaters and advanced body electronics. The market includes automotive-grade 48V electronic fuse ICs and modules, but excludes conventional blade fuses, relays and complete power distribution boxes.

The industry chain includes power MOSFETs, gate drivers, current sensors, microcontrollers, protection ICs, substrates, leadframes, packaging materials, test sockets and automotive qualification services. Midstream production covers IC design, wafer fabrication, packaging, module assembly, electrical testing, thermal testing, fault protection validation and reliability qualification. Downstream demand comes from 48V vehicle platforms, mild hybrid systems, electric pumps, compressors, chassis

electronics and automotive power distribution units. Growth is driven by electrification, zonal architecture, smart power distribution, diagnostics and higher reliability requirements.

This report studies the global Automotive 48V eFuse production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Automotive 48V eFuse 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 48V eFuse that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Automotive 48V eFuse total production and demand, 2021-2032, (K Units)

Global Automotive 48V eFuse total production value, 2021-2032, (USD Million)

Global Automotive 48V eFuse production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (K Units), (based on production site)

Global Automotive 48V eFuse consumption by region & country, CAGR, 2021-2032 & (K Units)

U.S. VS China: Automotive 48V eFuse domestic production, consumption, key domestic manufacturers and share

Global Automotive 48V eFuse production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (K Units)

Global Automotive 48V eFuse production by Type, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

Global Automotive 48V eFuse production by Application, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

This report profiles key players in the global Automotive 48V eFuse 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 AG, STMicroelectronics N.V., Texas Instruments Incorporated, Monolithic Power Systems, Inc., Vishay Intertechnology, Inc., Elmos Semiconductor SE, Renesas Electronics Corporation, onsemi, Analogy Semiconductor Co., Ltd., Huatai Semiconductor Co., Ltd., 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 48V eFuse 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 48V eFuse Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Automotive 48V eFuse Market, Segmentation by Type:

Single-Channel eFuses

Dual-Channel eFuses

Multi-Channel eFuses

Global Automotive 48V eFuse Market, Segmentation by Integration Level:

- Discrete eFuse Devices
- Smart High-Side eFuses
- Integrated Power Distribution eFuses

Global Automotive 48V eFuse Market, Segmentation by Rated Current:

- Low Current??20 A?
- Medium Current?21?60 A?
- High Current??60 A?

Global Automotive 48V eFuse Market, Segmentation by Application:

- 48V Power Distribution
- Mild Hybrid Systems
- Electric Auxiliary Loads
- Other

Companies Profiled:

- Infineon Technologies AG
- STMicroelectronics N.V.
- Texas Instruments Incorporated
- Monolithic Power Systems, Inc.

Vishay Intertechnology, Inc.

Elmos Semiconductor SE

Renesas Electronics Corporation

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Analogy Semiconductor Co., Ltd.

Huatai Semiconductor Co., Ltd.

Key Questions Answered:

1. How big is the global Automotive 48V eFuse market?
2. What is the demand of the global Automotive 48V eFuse market?
3. What is the year over year growth of the global Automotive 48V eFuse market?
4. What is the production and production value of the global Automotive 48V eFuse market?
5. Who are the key producers in the global Automotive 48V eFuse market?
6. What are the growth factors driving the market demand?

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