

Global Automotive 48V eFuse Market Growth 2026-2032

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Abstracts

The global Automotive 48V eFuse market size is predicted to grow from US\$ 607 million in 2025 to US\$ 2330 million in 2032; it is expected to grow at a CAGR of 21.3% from 2026 to 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.

United States market for Automotive 48V eFuse is estimated to increase from US\$ million in 2025 to US\$ million by 2032, at a CAGR of % from 2026 through 2032.

China market for Automotive 48V eFuse is estimated to increase from US\$ million in 2025 to US\$ million by 2032, at a CAGR of % from 2026 through 2032.

Europe market for Automotive 48V eFuse is estimated to increase from US\$ million in 2025 to US\$ million by 2032, at a CAGR of % from 2026 through 2032.

Global key Automotive 48V eFuse players cover Infineon Technologies AG, STMicroelectronics N.V., Texas Instruments Incorporated, Monolithic Power Systems, Inc., Vishay Intertechnology, Inc., etc. In terms of revenue, the global two largest companies occupied for a share nearly % in 2025.

LP Information, Inc. (LPI) ' newest research report, the "Automotive 48V eFuse Industry Forecast" looks at past sales and reviews total world Automotive 48V eFuse sales in 2025, providing a comprehensive analysis by region and market sector of projected Automotive 48V eFuse sales for 2026 through 2032. With Automotive 48V eFuse sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US\$ millions of the world Automotive 48V eFuse industry.

This Insight Report provides a comprehensive analysis of the global Automotive 48V eFuse landscape and highlights key trends related to product segmentation, company formation, revenue, and market share, latest development, and M&A activity. This report also analyzes the strategies of leading global companies with a focus on Automotive 48V eFuse portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global Automotive 48V eFuse market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Automotive 48V eFuse and breaks down the forecast by Type, by Application, geography, and market size to highlight emerging pockets of opportunity. With a transparent methodology based on hundreds of bottom-up qualitative and quantitative market inputs, this study forecast offers a highly nuanced

view of the current state and future trajectory in the global Automotive 48V eFuse.

This report presents a comprehensive overview, market shares, and growth opportunities of Automotive 48V eFuse market by product type, application, key manufacturers and key regions and countries.

Segmentation by Type:

Single-Channel eFuses

Dual-Channel eFuses

Multi-Channel eFuses

Segmentation by Integration Level:

Discrete eFuse Devices

Smart High-Side eFuses

Integrated Power Distribution eFuses

Segmentation by Rated Current:

Low Current??20 A?

Medium Current?21–60 A?

High Current??60 A?

Segmentation by Application:

48V Power Distribution

Mild Hybrid Systems

Electric Auxiliary Loads

Other

This report also splits the market by region:

Americas

United States

Canada

Mexico

Brazil

APAC

China

Japan

Korea

Southeast Asia

India

Australia

Europe

Germany

France

UK

Italy

Russia

Middle East & Africa

Egypt

South Africa

Israel

Turkey

GCC Countries

The below companies that are profiled have been selected based on inputs gathered from primary experts and analysing the company's coverage, product portfolio, its market penetration.

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 Addressed in this Report

What is the 10-year outlook for the global Automotive 48V eFuse market?

What factors are driving Automotive 48V eFuse market growth, globally and by region?

Which technologies are poised for the fastest growth by market and region?

How do Automotive 48V eFuse market opportunities vary by end market size?

How does Automotive 48V eFuse break out by Type, by Application?

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