

# Global Automotive Multiphase Buck Converter Market 2025 by Manufacturers, Regions, Type and Application, Forecast to 2031

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## Abstracts

According to our (Global Info Research) latest study, the global Automotive Multiphase Buck Converter market size was valued at US\$ 525 million in 2024 and is forecast to a readjusted size of USD 793 million by 2031 with a CAGR of 6.1% during review period.

In this report, we will assess the current U.S. tariff framework alongside international policy adaptations, analyzing their effects on competitive market structures, regional economic dynamics, and supply chain resilience.

An automotive multiphase buck converter is a highly efficient DC-DC power conversion device used in modern vehicles to step down higher battery voltages—such as 12V, 24V, or 48V—to lower voltages required by sensitive electronic components and control systems. Unlike single-phase converters, a multiphase buck converter utilizes multiple interleaved phases that operate in parallel, reducing ripple current, enhancing thermal performance, and distributing electrical load more evenly across components. This design is particularly beneficial in automotive environments where space, thermal efficiency, and power reliability are critical. These converters are used to power electronic control units (ECUs), infotainment systems, sensors, advanced driver-assistance systems (ADAS), and other electronic subsystems. Their ability to deliver stable output under variable load conditions and support fast transient response makes them essential for ensuring electrical performance and efficiency in both internal combustion and electric vehicles.

This report is a detailed and comprehensive analysis for global Automotive Multiphase Buck Converter 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 Automotive Multiphase Buck Converter market size and forecasts, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2020-2031

Global Automotive Multiphase Buck Converter market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2020-2031

Global Automotive Multiphase Buck Converter market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2020-2031

Global Automotive Multiphase Buck Converter market shares of main players, shipments in revenue (\$ Million), sales quantity (K Units), and ASP (US\$/Unit), 2020-2025

**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 Automotive Multiphase Buck Converter
- 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 Automotive Multiphase Buck Converter 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 Texas Instruments, Analog Devices, Infineon Technologies, Onsemi, STMicroelectronics, Vishay Intertechnology, Renesas Electronics, Microchip Technology, ROHM Semiconductor, NXP Semiconductors, etc.

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

## Market Segmentation

Automotive Multiphase Buck Converter market is split by Type and by Application. For the period 2020-2031, 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

Isolated Multiphase Buck Converter

Non-Isolated Multiphase Buck Converter

### Market segment by Application

Passenger Car

Commercial Vehicle

### Major players covered

Texas Instruments

Analog Devices

Infineon Technologies

Onsemi

STMicroelectronics

Vishay Intertechnology

Renesas Electronics

Microchip Technology

ROHM Semiconductor

NXP Semiconductors

Monolithic Power Systems

Diodes

Efficient Power Conversion

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 Automotive Multiphase Buck Converter product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Automotive Multiphase Buck Converter, with price, sales quantity, revenue, and global market share of Automotive Multiphase Buck Converter from 2020 to 2025.

Chapter 3, the Automotive Multiphase Buck Converter competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Automotive Multiphase Buck Converter breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2020 to 2031.

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 2020 to 2031.

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 2020 to 2025. and Automotive Multiphase Buck Converter market forecast, by regions, by

Type, and by Application, with sales and revenue, from 2026 to 2031.

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 Automotive Multiphase Buck Converter.

Chapter 14 and 15, to describe Automotive Multiphase Buck Converter sales channel, distributors, customers, research findings and conclusion.

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