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Global Automotive Multiphase Buck Converter Market Growth 2026-2032

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Abstracts

The global Automotive Multiphase Buck Converter market size is predicted to grow from US$ 530 million in 2025 to US$ 813 million in 2032; it is expected to grow at a CAGR of 6.4% from 2026 to 2032.

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.

United States market for Automotive Multiphase Buck Converter 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 Multiphase Buck Converter 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 Multiphase Buck Converter is estimated to increase from

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US$ million in 2025 to US$ million by 2032, at a CAGR of % from 2026 through 2032.

Global key Automotive Multiphase Buck Converter players cover Texas Instruments, Analog Devices, Infineon Technologies, Onsemi, STMicroelectronics, etc. In terms of revenue, the global two largest companies occupied for a share nearly % in 2025.

Report Scope

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

This Insight Report provides a comprehensive analysis of the global Automotive Multiphase Buck Converter 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 Multiphase Buck Converter portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms’ unique position in an accelerating global Automotive Multiphase Buck Converter market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Automotive Multiphase Buck Converter 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 Multiphase Buck Converter.

This report presents a comprehensive overview, market shares, and growth opportunities of Automotive Multiphase Buck Converter market by product type, application, key manufacturers and key regions and countries.

Market Segmentation

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Segmentation by Type:

Isolated Multiphase Buck Converter

Non-Isolated Multiphase Buck Converter

Segmentation by Application:

Passenger Car

Commercial Vehicle

This report also splits the market by region:

Americas

United States

Canada

Mexico

Brazil

APAC

China

Japan

Korea

Southeast Asia

India

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- 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.

- Texas Instruments
- Analog Devices
- Infineon Technologies
- Onsemi

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STMicroelectronics

Vishay Intertechnology

Renesas Electronics

Microchip Technology

ROHM Semiconductor

NXP Semiconductors

Monolithic Power Systems

Diodes

Efficient Power Conversion

Key Questions Addressed in this Report

What is the 10-year outlook for the global Automotive Multiphase Buck Converter market?

What factors are driving Automotive Multiphase Buck Converter market growth, globally and by region?

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

How do Automotive Multiphase Buck Converter market opportunities vary by end market size?

How does Automotive Multiphase Buck Converter break out by Type, by Application?

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Contents

1 SCOPE OF THE REPORT

1.1 Market Introduction
1.2 Years Considered
1.3 Research Objectives
1.4 Market Research Methodology
1.5 Research Process and Data Source
1.6 Economic Indicators
1.7 Currency Considered
1.8 Market Estimation Caveats

2 EXECUTIVE SUMMARY

2.1 World Market Overview
  2.1.1 Global Automotive Multiphase Buck Converter Annual Sales 2021-2032
  2.1.2 World Current & Future Analysis for Automotive Multiphase Buck Converter by Geographic Region, 2021, 2025 & 2032
  2.1.3 World Current & Future Analysis for Automotive Multiphase Buck Converter by Country/Region, 2021, 2025 & 2032
2.2 Automotive Multiphase Buck Converter Segment by Type
  2.2.1 Isolated Multiphase Buck Converter
  2.2.2 Non-Isolated Multiphase Buck Converter
  2.2.3 Automotive Multiphase Buck Converter Sales by Type
    2.2.3.1 Global Automotive Multiphase Buck Converter Sales Market Share by Type (2021-2026)
    2.2.3.2 Global Automotive Multiphase Buck Converter Revenue and Market Share by Type (2021-2026)
    2.2.3.3 Global Automotive Multiphase Buck Converter Sale Price by Type (2021-2026)
2.3 Automotive Multiphase Buck Converter Segment by Application
  2.3.1 Passenger Car
  2.3.2 Commercial Vehicle
  2.3.3 Automotive Multiphase Buck Converter Sales by Application
    2.3.3.1 Global Automotive Multiphase Buck Converter Sale Market Share by Application (2021-2026)
    2.3.3.2 Global Automotive Multiphase Buck Converter Revenue and Market Share by Application (2021-2026)

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2.3.3.3 Global Automotive Multiphase Buck Converter Sale Price by Application (2021-2026)

3 GLOBAL BY COMPANY

3.1 Global Automotive Multiphase Buck Converter Breakdown Data by Company
3.1.1 Global Automotive Multiphase Buck Converter Annual Sales by Company (2021-2026)
3.1.2 Global Automotive Multiphase Buck Converter Sales Market Share by Company (2021-2026)
3.2 Global Automotive Multiphase Buck Converter Annual Revenue by Company (2021-2026)
3.2.1 Global Automotive Multiphase Buck Converter Revenue by Company (2021-2026)
3.2.2 Global Automotive Multiphase Buck Converter Revenue Market Share by Company (2021-2026)
3.3 Global Automotive Multiphase Buck Converter Sale Price by Company
3.4 Key Manufacturers Automotive Multiphase Buck Converter Producing Area Distribution, Sales Area, Product Type
3.4.1 Key Manufacturers Automotive Multiphase Buck Converter Product Location Distribution
3.4.2 Players Automotive Multiphase Buck Converter Products Offered
3.5 Market Concentration Rate Analysis
3.5.1 Competition Landscape Analysis
3.5.2 Concentration Ratio (CR3, CR5 and CR10) & (2024-2026)
3.6 New Products and Potential Entrants
3.7 Market M&A Activity & Strategy

4 WORLD HISTORIC REVIEW FOR AUTOMOTIVE MULTIPHASE BUCK CONVERTER BY GEOGRAPHIC REGION

4.1 World Historic Automotive Multiphase Buck Converter Market Size by Geographic Region (2021-2026)
4.1.1 Global Automotive Multiphase Buck Converter Annual Sales by Geographic Region (2021-2026)
4.1.2 Global Automotive Multiphase Buck Converter Annual Revenue by Geographic Region (2021-2026)
4.2 World Historic Automotive Multiphase Buck Converter Market Size by Country/Region (2021-2026)

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4.2.1 Global Automotive Multiphase Buck Converter Annual Sales by Country/Region (2021-2026)
4.2.2 Global Automotive Multiphase Buck Converter Annual Revenue by Country/Region (2021-2026)
4.3 Americas Automotive Multiphase Buck Converter Sales Growth
4.4 APAC Automotive Multiphase Buck Converter Sales Growth
4.5 Europe Automotive Multiphase Buck Converter Sales Growth
4.6 Middle East & Africa Automotive Multiphase Buck Converter Sales Growth

5 AMERICAS

5.1 Americas Automotive Multiphase Buck Converter Sales by Country
5.1.1 Americas Automotive Multiphase Buck Converter Sales by Country (2021-2026)
5.1.2 Americas Automotive Multiphase Buck Converter Revenue by Country (2021-2026)
5.2 Americas Automotive Multiphase Buck Converter Sales by Type (2021-2026)
5.3 Americas Automotive Multiphase Buck Converter Sales by Application (2021-2026)
5.4 United States
5.5 Canada
5.6 Mexico
5.7 Brazil

6 APAC

6.1 APAC Automotive Multiphase Buck Converter Sales by Region
6.1.1 APAC Automotive Multiphase Buck Converter Sales by Region (2021-2026)
6.1.2 APAC Automotive Multiphase Buck Converter Revenue by Region (2021-2026)
6.2 APAC Automotive Multiphase Buck Converter Sales by Type (2021-2026)
6.3 APAC Automotive Multiphase Buck Converter Sales by Application (2021-2026)
6.4 China
6.5 Japan
6.6 South Korea
6.7 Southeast Asia
6.8 India
6.9 Australia
6.10 China Taiwan

7 EUROPE

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7.1 Europe Automotive Multiphase Buck Converter by Country
7.1.1 Europe Automotive Multiphase Buck Converter Sales by Country (2021-2026)
7.1.2 Europe Automotive Multiphase Buck Converter Revenue by Country (2021-2026)
7.2 Europe Automotive Multiphase Buck Converter Sales by Type (2021-2026)
7.3 Europe Automotive Multiphase Buck Converter Sales by Application (2021-2026)
7.4 Germany
7.5 France
7.6 UK
7.7 Italy
7.8 Russia

8 MIDDLE EAST & AFRICA

8.1 Middle East & Africa Automotive Multiphase Buck Converter by Country
8.1.1 Middle East & Africa Automotive Multiphase Buck Converter Sales by Country (2021-2026)
8.1.2 Middle East & Africa Automotive Multiphase Buck Converter Revenue by Country (2021-2026)
8.2 Middle East & Africa Automotive Multiphase Buck Converter Sales by Type (2021-2026)
8.3 Middle East & Africa Automotive Multiphase Buck Converter Sales by Application (2021-2026)
8.4 Egypt
8.5 South Africa
8.6 Israel
8.7 Turkey
8.8 GCC Countries

9 MARKET DRIVERS, CHALLENGES AND TRENDS

9.1 Market Drivers & Growth Opportunities
9.2 Market Challenges & Risks
9.3 Industry Trends

10 MANUFACTURING COST STRUCTURE ANALYSIS

10.1 Raw Material and Suppliers
10.2 Manufacturing Cost Structure Analysis of Automotive Multiphase Buck Converter
10.3 Manufacturing Process Analysis of Automotive Multiphase Buck Converter

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10.4 Industry Chain Structure of Automotive Multiphase Buck Converter

11 MARKETING, DISTRIBUTORS AND CUSTOMER

11.1 Sales Channel
  11.1.1 Direct Channels
  11.1.2 Indirect Channels
11.2 Automotive Multiphase Buck Converter Distributors
11.3 Automotive Multiphase Buck Converter Customer

12 WORLD FORECAST REVIEW FOR AUTOMOTIVE MULTIPHASE BUCK CONVERTER BY GEOGRAPHIC REGION

12.1 Global Automotive Multiphase Buck Converter Market Size Forecast by Region
  12.1.1 Global Automotive Multiphase Buck Converter Forecast by Region (2027-2032)
  12.1.2 Global Automotive Multiphase Buck Converter Annual Revenue Forecast by Region (2027-2032)
12.2 Americas Forecast by Country (2027-2032)
12.3 APAC Forecast by Region (2027-2032)
12.4 Europe Forecast by Country (2027-2032)
12.5 Middle East & Africa Forecast by Country (2027-2032)
12.6 Global Automotive Multiphase Buck Converter Forecast by Type (2027-2032)
12.7 Global Automotive Multiphase Buck Converter Forecast by Application (2027-2032)

13 KEY PLAYERS ANALYSIS

13.1 Texas Instruments
  13.1.1 Texas Instruments Company Information
  13.1.2 Texas Instruments Automotive Multiphase Buck Converter Product Portfolios and Specifications
  13.1.3 Texas Instruments Automotive Multiphase Buck Converter Sales, Revenue, Price and Gross Margin (2021-2026)
  13.1.4 Texas Instruments Main Business Overview
  13.1.5 Texas Instruments Latest Developments
13.2 Analog Devices
  13.2.1 Analog Devices Company Information
  13.2.2 Analog Devices Automotive Multiphase Buck Converter Product Portfolios and Specifications

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13.2.3 Analog Devices Automotive Multiphase Buck Converter Sales, Revenue, Price and Gross Margin (2021-2026)
13.2.4 Analog Devices Main Business Overview
13.2.5 Analog Devices Latest Developments
13.3 Infineon Technologies
13.3.1 Infineon Technologies Company Information
13.3.2 Infineon Technologies Automotive Multiphase Buck Converter Product Portfolios and Specifications
13.3.3 Infineon Technologies Automotive Multiphase Buck Converter Sales, Revenue, Price and Gross Margin (2021-2026)
13.3.4 Infineon Technologies Main Business Overview
13.3.5 Infineon Technologies Latest Developments
13.4 Onsemi
13.4.1 Onsemi Company Information
13.4.2 Onsemi Automotive Multiphase Buck Converter Product Portfolios and Specifications
13.4.3 Onsemi Automotive Multiphase Buck Converter Sales, Revenue, Price and Gross Margin (2021-2026)
13.4.4 Onsemi Main Business Overview
13.4.5 Onsemi Latest Developments
13.5 STMicroelectronics
13.5.1 STMicroelectronics Company Information
13.5.2 STMicroelectronics Automotive Multiphase Buck Converter Product Portfolios and Specifications
13.5.3 STMicroelectronics Automotive Multiphase Buck Converter Sales, Revenue, Price and Gross Margin (2021-2026)
13.5.4 STMicroelectronics Main Business Overview
13.5.5 STMicroelectronics Latest Developments
13.6 Vishay Intertechnology
13.6.1 Vishay Intertechnology Company Information
13.6.2 Vishay Intertechnology Automotive Multiphase Buck Converter Product Portfolios and Specifications
13.6.3 Vishay Intertechnology Automotive Multiphase Buck Converter Sales, Revenue, Price and Gross Margin (2021-2026)
13.6.4 Vishay Intertechnology Main Business Overview
13.6.5 Vishay Intertechnology Latest Developments
13.7 Renesas Electronics
13.7.1 Renesas Electronics Company Information
13.7.2 Renesas Electronics Automotive Multiphase Buck Converter Product Portfolios

+357 96 030922
info@marketpublishers.com

and Specifications
13.7.3 Renesas Electronics Automotive Multiphase Buck Converter Sales, Revenue, Price and Gross Margin (2021-2026)
13.7.4 Renesas Electronics Main Business Overview
13.7.5 Renesas Electronics Latest Developments
13.8 Microchip Technology
13.8.1 Microchip Technology Company Information
13.8.2 Microchip Technology Automotive Multiphase Buck Converter Product Portfolios and Specifications
13.8.3 Microchip Technology Automotive Multiphase Buck Converter Sales, Revenue, Price and Gross Margin (2021-2026)
13.8.4 Microchip Technology Main Business Overview
13.8.5 Microchip Technology Latest Developments
13.9 ROHM Semiconductor
13.9.1 ROHM Semiconductor Company Information
13.9.2 ROHM Semiconductor Automotive Multiphase Buck Converter Product Portfolios and Specifications
13.9.3 ROHM Semiconductor Automotive Multiphase Buck Converter Sales, Revenue, Price and Gross Margin (2021-2026)
13.9.4 ROHM Semiconductor Main Business Overview
13.9.5 ROHM Semiconductor Latest Developments
13.10 NXP Semiconductors
13.10.1 NXP Semiconductors Company Information
13.10.2 NXP Semiconductors Automotive Multiphase Buck Converter Product Portfolios and Specifications
13.10.3 NXP Semiconductors Automotive Multiphase Buck Converter Sales, Revenue, Price and Gross Margin (2021-2026)
13.10.4 NXP Semiconductors Main Business Overview
13.10.5 NXP Semiconductors Latest Developments
13.11 Monolithic Power Systems
13.11.1 Monolithic Power Systems Company Information
13.11.2 Monolithic Power Systems Automotive Multiphase Buck Converter Product Portfolios and Specifications
13.11.3 Monolithic Power Systems Automotive Multiphase Buck Converter Sales, Revenue, Price and Gross Margin (2021-2026)
13.11.4 Monolithic Power Systems Main Business Overview
13.11.5 Monolithic Power Systems Latest Developments
13.12 Diodes
13.12.1 Diodes Company Information

+357 96 030922
info@marketpublishers.com

13.12.2 Diodes Automotive Multiphase Buck Converter Product Portfolios and Specifications
13.12.3 Diodes Automotive Multiphase Buck Converter Sales, Revenue, Price and Gross Margin (2021-2026)
13.12.4 Diodes Main Business Overview
13.12.5 Diodes Latest Developments
13.13 Efficient Power Conversion
13.13.1 Efficient Power Conversion Company Information
13.13.2 Efficient Power Conversion Automotive Multiphase Buck Converter Product Portfolios and Specifications
13.13.3 Efficient Power Conversion Automotive Multiphase Buck Converter Sales, Revenue, Price and Gross Margin (2021-2026)
13.13.4 Efficient Power Conversion Main Business Overview
13.13.5 Efficient Power Conversion Latest Developments

14 RESEARCH FINDINGS AND CONCLUSION

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List Of Tables

LIST OF TABLES

Table 1. Automotive Multiphase Buck Converter Annual Sales CAGR by Geographic Region (2021, 2025 & 2032) & ($ millions)
Table 2. Automotive Multiphase Buck Converter Annual Sales CAGR by Country/Region (2021, 2025 & 2032) & ($ millions)
Table 3. Major Players of Isolated Multiphase Buck Converter
Table 4. Major Players of Non-Isolated Multiphase Buck Converter
Table 5. Global Automotive Multiphase Buck Converter Sales by Type (2021-2026) & (K Units)
Table 6. Global Automotive Multiphase Buck Converter Sales Market Share by Type (2021-2026)
Table 7. Global Automotive Multiphase Buck Converter Revenue by Type (2021-2026) & ($ million)
Table 8. Global Automotive Multiphase Buck Converter Revenue Market Share by Type (2021-2026)
Table 9. Global Automotive Multiphase Buck Converter Sale Price by Type (2021-2026) & (US$/Unit)
Table 10. Global Automotive Multiphase Buck Converter Sale by Application (2021-2026) & (K Units)
Table 11. Global Automotive Multiphase Buck Converter Sale Market Share by Application (2021-2026)
Table 12. Global Automotive Multiphase Buck Converter Revenue by Application (2021-2026) & ($ million)
Table 13. Global Automotive Multiphase Buck Converter Revenue Market Share by Application (2021-2026)
Table 14. Global Automotive Multiphase Buck Converter Sale Price by Application (2021-2026) & (US$/Unit)
Table 15. Global Automotive Multiphase Buck Converter Sales by Company (2021-2026) & (K Units)
Table 16. Global Automotive Multiphase Buck Converter Sales Market Share by Company (2021-2026)
Table 17. Global Automotive Multiphase Buck Converter Revenue by Company (2021-2026) & ($ millions)
Table 18. Global Automotive Multiphase Buck Converter Revenue Market Share by Company (2021-2026)
Table 19. Global Automotive Multiphase Buck Converter Sale Price by Company

+357 96 030922
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(2021-2026) & (US$/Unit)
Table 20. Key Manufacturers Automotive Multiphase Buck Converter Producing Area Distribution and Sales Area
Table 21. Players Automotive Multiphase Buck Converter Products Offered
Table 22. Automotive Multiphase Buck Converter Concentration Ratio (CR3, CR5 and CR10) & (2024-2026)
Table 23. New Products and Potential Entrants
Table 24. Market M&A Activity & Strategy
Table 25. Global Automotive Multiphase Buck Converter Sales by Geographic Region (2021-2026) & (K Units)
Table 26. Global Automotive Multiphase Buck Converter Sales Market Share Geographic Region (2021-2026)
Table 27. Global Automotive Multiphase Buck Converter Revenue by Geographic Region (2021-2026) & ($ millions)
Table 28. Global Automotive Multiphase Buck Converter Revenue Market Share by Geographic Region (2021-2026)
Table 29. Global Automotive Multiphase Buck Converter Sales by Country/Region (2021-2026) & (K Units)
Table 30. Global Automotive Multiphase Buck Converter Sales Market Share by Country/Region (2021-2026)
Table 31. Global Automotive Multiphase Buck Converter Revenue by Country/Region (2021-2026) & ($ millions)
Table 32. Global Automotive Multiphase Buck Converter Revenue Market Share by Country/Region (2021-2026)
Table 33. Americas Automotive Multiphase Buck Converter Sales by Country (2021-2026) & (K Units)
Table 34. Americas Automotive Multiphase Buck Converter Sales Market Share by Country (2021-2026)
Table 35. Americas Automotive Multiphase Buck Converter Revenue by Country (2021-2026) & ($ millions)
Table 36. Americas Automotive Multiphase Buck Converter Sales by Type (2021-2026) & (K Units)
Table 37. Americas Automotive Multiphase Buck Converter Sales by Application (2021-2026) & (K Units)
Table 38. APAC Automotive Multiphase Buck Converter Sales by Region (2021-2026) & (K Units)
Table 39. APAC Automotive Multiphase Buck Converter Sales Market Share by Region (2021-2026)
Table 40. APAC Automotive Multiphase Buck Converter Revenue by Region

+357 96 030922
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(2021-2026) & ($ millions)
Table 41. APAC Automotive Multiphase Buck Converter Sales by Type (2021-2026) & (K Units)
Table 42. APAC Automotive Multiphase Buck Converter Sales by Application (2021-2026) & (K Units)
Table 43. Europe Automotive Multiphase Buck Converter Sales by Country (2021-2026) & (K Units)
Table 44. Europe Automotive Multiphase Buck Converter Revenue by Country (2021-2026) & ($ millions)
Table 45. Europe Automotive Multiphase Buck Converter Sales by Type (2021-2026) & (K Units)
Table 46. Europe Automotive Multiphase Buck Converter Sales by Application (2021-2026) & (K Units)
Table 47. Middle East & Africa Automotive Multiphase Buck Converter Sales by Country (2021-2026) & (K Units)
Table 48. Middle East & Africa Automotive Multiphase Buck Converter Revenue Market Share by Country (2021-2026)
Table 49. Middle East & Africa Automotive Multiphase Buck Converter Sales by Type (2021-2026) & (K Units)
Table 50. Middle East & Africa Automotive Multiphase Buck Converter Sales by Application (2021-2026) & (K Units)
Table 51. Key Market Drivers & Growth Opportunities of Automotive Multiphase Buck Converter
Table 52. Key Market Challenges & Risks of Automotive Multiphase Buck Converter
Table 53. Key Industry Trends of Automotive Multiphase Buck Converter
Table 54. Automotive Multiphase Buck Converter Raw Material
Table 55. Key Suppliers of Raw Materials
Table 56. Automotive Multiphase Buck Converter Distributors List
Table 57. Automotive Multiphase Buck Converter Customer List
Table 58. Global Automotive Multiphase Buck Converter Sales Forecast by Region (2027-2032) & (K Units)
Table 59. Global Automotive Multiphase Buck Converter Revenue Forecast by Region (2027-2032) & ($ millions)
Table 60. Americas Automotive Multiphase Buck Converter Sales Forecast by Country (2027-2032) & (K Units)
Table 61. Americas Automotive Multiphase Buck Converter Annual Revenue Forecast by Country (2027-2032) & ($ millions)
Table 62. APAC Automotive Multiphase Buck Converter Sales Forecast by Region (2027-2032) & (K Units)

+357 96 030922
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Table 63. APAC Automotive Multiphase Buck Converter Annual Revenue Forecast by Region (2027-2032) & ($ millions)
Table 64. Europe Automotive Multiphase Buck Converter Sales Forecast by Country (2027-2032) & (K Units)
Table 65. Europe Automotive Multiphase Buck Converter Revenue Forecast by Country (2027-2032) & ($ millions)
Table 66. Middle East & Africa Automotive Multiphase Buck Converter Sales Forecast by Country (2027-2032) & (K Units)
Table 67. Middle East & Africa Automotive Multiphase Buck Converter Revenue Forecast by Country (2027-2032) & ($ millions)
Table 68. Global Automotive Multiphase Buck Converter Sales Forecast by Type (2027-2032) & (K Units)
Table 69. Global Automotive Multiphase Buck Converter Revenue Forecast by Type (2027-2032) & ($ millions)
Table 70. Global Automotive Multiphase Buck Converter Sales Forecast by Application (2027-2032) & (K Units)
Table 71. Global Automotive Multiphase Buck Converter Revenue Forecast by Application (2027-2032) & ($ millions)
Table 72. Texas Instruments Basic Information, Automotive Multiphase Buck Converter Manufacturing Base, Sales Area and Its Competitors
Table 73. Texas Instruments Automotive Multiphase Buck Converter Product Portfolios and Specifications
Table 74. Texas Instruments Automotive Multiphase Buck Converter Sales (K Units), Revenue ($ Million), Price (US$/Unit) and Gross Margin (2021-2026)
Table 75. Texas Instruments Main Business
Table 76. Texas Instruments Latest Developments
Table 77. Analog Devices Basic Information, Automotive Multiphase Buck Converter Manufacturing Base, Sales Area and Its Competitors
Table 78. Analog Devices Automotive Multiphase Buck Converter Product Portfolios and Specifications
Table 79. Analog Devices Automotive Multiphase Buck Converter Sales (K Units), Revenue ($ Million), Price (US$/Unit) and Gross Margin (2021-2026)
Table 80. Analog Devices Main Business
Table 81. Analog Devices Latest Developments
Table 82. Infineon Technologies Basic Information, Automotive Multiphase Buck Converter Manufacturing Base, Sales Area and Its Competitors
Table 83. Infineon Technologies Automotive Multiphase Buck Converter Product Portfolios and Specifications
Table 84. Infineon Technologies Automotive Multiphase Buck Converter Sales (K

+357 96 030922
info@marketpublishers.com

Units), Revenue ($ Million), Price (US$/Unit) and Gross Margin (2021-2026)
Table 85. Infineon Technologies Main Business
Table 86. Infineon Technologies Latest Developments
Table 87. Onsemi Basic Information, Automotive Multiphase Buck Converter Manufacturing Base, Sales Area and Its Competitors
Table 88. Onsemi Automotive Multiphase Buck Converter Product Portfolios and Specifications
Table 89. Onsemi Automotive Multiphase Buck Converter Sales (K Units), Revenue ($ Million), Price (US$/Unit) and Gross Margin (2021-2026)
Table 90. Onsemi Main Business
Table 91. Onsemi Latest Developments
Table 92. STMicroelectronics Basic Information, Automotive Multiphase Buck Converter Manufacturing Base, Sales Area and Its Competitors
Table 93. STMicroelectronics Automotive Multiphase Buck Converter Product Portfolios and Specifications
Table 94. STMicroelectronics Automotive Multiphase Buck Converter Sales (K Units), Revenue ($ Million), Price (US$/Unit) and Gross Margin (2021-2026)
Table 95. STMicroelectronics Main Business
Table 96. STMicroelectronics Latest Developments
Table 97. Vishay Intertechnology Basic Information, Automotive Multiphase Buck Converter Manufacturing Base, Sales Area and Its Competitors
Table 98. Vishay Intertechnology Automotive Multiphase Buck Converter Product Portfolios and Specifications
Table 99. Vishay Intertechnology Automotive Multiphase Buck Converter Sales (K Units), Revenue ($ Million), Price (US$/Unit) and Gross Margin (2021-2026)
Table 100. Vishay Intertechnology Main Business
Table 101. Vishay Intertechnology Latest Developments
Table 102. Renesas Electronics Basic Information, Automotive Multiphase Buck Converter Manufacturing Base, Sales Area and Its Competitors
Table 103. Renesas Electronics Automotive Multiphase Buck Converter Product Portfolios and Specifications
Table 104. Renesas Electronics Automotive Multiphase Buck Converter Sales (K Units), Revenue ($ Million), Price (US$/Unit) and Gross Margin (2021-2026)
Table 105. Renesas Electronics Main Business
Table 106. Renesas Electronics Latest Developments
Table 107. Microchip Technology Basic Information, Automotive Multiphase Buck Converter Manufacturing Base, Sales Area and Its Competitors
Table 108. Microchip Technology Automotive Multiphase Buck Converter Product Portfolios and Specifications

+357 96 030922
info@marketpublishers.com

Table 109. Microchip Technology Automotive Multiphase Buck Converter Sales (K Units), Revenue ($ Million), Price (US$/Unit) and Gross Margin (2021-2026)
Table 110. Microchip Technology Main Business
Table 111. Microchip Technology Latest Developments
Table 112. ROHM Semiconductor Basic Information, Automotive Multiphase Buck Converter Manufacturing Base, Sales Area and Its Competitors
Table 113. ROHM Semiconductor Automotive Multiphase Buck Converter Product Portfolios and Specifications
Table 114. ROHM Semiconductor Automotive Multiphase Buck Converter Sales (K Units), Revenue ($ Million), Price (US$/Unit) and Gross Margin (2021-2026)
Table 115. ROHM Semiconductor Main Business
Table 116. ROHM Semiconductor Latest Developments
Table 117. NXP Semiconductors Basic Information, Automotive Multiphase Buck Converter Manufacturing Base, Sales Area and Its Competitors
Table 118. NXP Semiconductors Automotive Multiphase Buck Converter Product Portfolios and Specifications
Table 119. NXP Semiconductors Automotive Multiphase Buck Converter Sales (K Units), Revenue ($ Million), Price (US$/Unit) and Gross Margin (2021-2026)
Table 120. NXP Semiconductors Main Business
Table 121. NXP Semiconductors Latest Developments
Table 122. Monolithic Power Systems Basic Information, Automotive Multiphase Buck Converter Manufacturing Base, Sales Area and Its Competitors
Table 123. Monolithic Power Systems Automotive Multiphase Buck Converter Product Portfolios and Specifications
Table 124. Monolithic Power Systems Automotive Multiphase Buck Converter Sales (K Units), Revenue ($ Million), Price (US$/Unit) and Gross Margin (2021-2026)
Table 125. Monolithic Power Systems Main Business
Table 126. Monolithic Power Systems Latest Developments
Table 127. Diodes Basic Information, Automotive Multiphase Buck Converter Manufacturing Base, Sales Area and Its Competitors
Table 128. Diodes Automotive Multiphase Buck Converter Product Portfolios and Specifications
Table 129. Diodes Automotive Multiphase Buck Converter Sales (K Units), Revenue ($ Million), Price (US$/Unit) and Gross Margin (2021-2026)
Table 130. Diodes Main Business
Table 131. Diodes Latest Developments
Table 132. Efficient Power Conversion Basic Information, Automotive Multiphase Buck Converter Manufacturing Base, Sales Area and Its Competitors
Table 133. Efficient Power Conversion Automotive Multiphase Buck Converter Product

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Portfolios and Specifications
Table 134. Efficient Power Conversion Automotive Multiphase Buck Converter Sales (K Units), Revenue ($ Million), Price (US$/Unit) and Gross Margin (2021-2026)
Table 135. Efficient Power Conversion Main Business
Table 136. Efficient Power Conversion Latest Developments

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List Of Figures

LIST OF FIGURES

Figure 1. Picture of Automotive Multiphase Buck Converter
Figure 2. Automotive Multiphase Buck Converter Report Years Considered
Figure 3. Research Objectives
Figure 4. Research Methodology
Figure 5. Research Process and Data Source
Figure 6. Global Automotive Multiphase Buck Converter Sales Growth Rate 2021-2032 (K Units)
Figure 7. Global Automotive Multiphase Buck Converter Revenue Growth Rate 2021-2032 ($ millions)
Figure 8. Automotive Multiphase Buck Converter Sales by Geographic Region (2021, 2025 & 2032) & ($ millions)
Figure 9. Automotive Multiphase Buck Converter Sales Market Share by Country/Region (2025)
Figure 10. Automotive Multiphase Buck Converter Sales Market Share by Country/Region (2021, 2025 & 2032)
Figure 11. Product Picture of Isolated Multiphase Buck Converter
Figure 12. Product Picture of Non-Isolated Multiphase Buck Converter
Figure 13. Global Automotive Multiphase Buck Converter Sales Market Share by Type in 2026
Figure 14. Global Automotive Multiphase Buck Converter Revenue Market Share by Type (2021-2026)
Figure 15. Automotive Multiphase Buck Converter Consumed in Passenger Car
Figure 16. Global Automotive Multiphase Buck Converter Market: Passenger Car (2021-2026) & (K Units)
Figure 17. Automotive Multiphase Buck Converter Consumed in Commercial Vehicle
Figure 18. Global Automotive Multiphase Buck Converter Market: Commercial Vehicle (2021-2026) & (K Units)
Figure 19. Global Automotive Multiphase Buck Converter Sale Market Share by Application (2025)
Figure 20. Global Automotive Multiphase Buck Converter Revenue Market Share by Application in 2026
Figure 21. Automotive Multiphase Buck Converter Sales by Company in 2026 (K Units)
Figure 22. Global Automotive Multiphase Buck Converter Sales Market Share by Company in 2026
Figure 23. Automotive Multiphase Buck Converter Revenue by Company in 2026 ($

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millions)
Figure 24. Global Automotive Multiphase Buck Converter Revenue Market Share by Company in 2026
Figure 25. Global Automotive Multiphase Buck Converter Sales Market Share by Geographic Region (2021-2026)
Figure 26. Global Automotive Multiphase Buck Converter Revenue Market Share by Geographic Region in 2026
Figure 27. Americas Automotive Multiphase Buck Converter Sales 2021-2026 (K Units)
Figure 28. Americas Automotive Multiphase Buck Converter Revenue 2021-2026 ($ millions)
Figure 29. APAC Automotive Multiphase Buck Converter Sales 2021-2026 (K Units)
Figure 30. APAC Automotive Multiphase Buck Converter Revenue 2021-2026 ($ millions)
Figure 31. Europe Automotive Multiphase Buck Converter Sales 2021-2026 (K Units)
Figure 32. Europe Automotive Multiphase Buck Converter Revenue 2021-2026 ($ millions)
Figure 33. Middle East & Africa Automotive Multiphase Buck Converter Sales 2021-2026 (K Units)
Figure 34. Middle East & Africa Automotive Multiphase Buck Converter Revenue 2021-2026 ($ millions)
Figure 35. Americas Automotive Multiphase Buck Converter Sales Market Share by Country in 2026
Figure 36. Americas Automotive Multiphase Buck Converter Revenue Market Share by Country (2021-2026)
Figure 37. Americas Automotive Multiphase Buck Converter Sales Market Share by Type (2021-2026)
Figure 38. Americas Automotive Multiphase Buck Converter Sales Market Share by Application (2021-2026)
Figure 39. United States Automotive Multiphase Buck Converter Revenue Growth 2021-2026 ($ millions)
Figure 40. Canada Automotive Multiphase Buck Converter Revenue Growth 2021-2026 ($ millions)
Figure 41. Mexico Automotive Multiphase Buck Converter Revenue Growth 2021-2026 ($ millions)
Figure 42. Brazil Automotive Multiphase Buck Converter Revenue Growth 2021-2026 ($ millions)
Figure 43. APAC Automotive Multiphase Buck Converter Sales Market Share by Region in 2026
Figure 44. APAC Automotive Multiphase Buck Converter Revenue Market Share by

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Region (2021-2026)
Figure 45. APAC Automotive Multiphase Buck Converter Sales Market Share by Type (2021-2026)
Figure 46. APAC Automotive Multiphase Buck Converter Sales Market Share by Application (2021-2026)
Figure 47. China Automotive Multiphase Buck Converter Revenue Growth 2021-2026 ($ millions)
Figure 48. Japan Automotive Multiphase Buck Converter Revenue Growth 2021-2026 ($ millions)
Figure 49. South Korea Automotive Multiphase Buck Converter Revenue Growth 2021-2026 ($ millions)
Figure 50. Southeast Asia Automotive Multiphase Buck Converter Revenue Growth 2021-2026 ($ millions)
Figure 51. India Automotive Multiphase Buck Converter Revenue Growth 2021-2026 ($ millions)
Figure 52. Australia Automotive Multiphase Buck Converter Revenue Growth 2021-2026 ($ millions)
Figure 53. China Taiwan Automotive Multiphase Buck Converter Revenue Growth 2021-2026 ($ millions)
Figure 54. Europe Automotive Multiphase Buck Converter Sales Market Share by Country in 2026
Figure 55. Europe Automotive Multiphase Buck Converter Revenue Market Share by Country (2021-2026)
Figure 56. Europe Automotive Multiphase Buck Converter Sales Market Share by Type (2021-2026)
Figure 57. Europe Automotive Multiphase Buck Converter Sales Market Share by Application (2021-2026)
Figure 58. Germany Automotive Multiphase Buck Converter Revenue Growth 2021-2026 ($ millions)
Figure 59. France Automotive Multiphase Buck Converter Revenue Growth 2021-2026 ($ millions)
Figure 60. UK Automotive Multiphase Buck Converter Revenue Growth 2021-2026 ($ millions)
Figure 61. Italy Automotive Multiphase Buck Converter Revenue Growth 2021-2026 ($ millions)
Figure 62. Russia Automotive Multiphase Buck Converter Revenue Growth 2021-2026 ($ millions)
Figure 63. Middle East & Africa Automotive Multiphase Buck Converter Sales Market Share by Country (2021-2026)

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Figure 64. Middle East & Africa Automotive Multiphase Buck Converter Sales Market Share by Type (2021-2026)
Figure 65. Middle East & Africa Automotive Multiphase Buck Converter Sales Market Share by Application (2021-2026)
Figure 66. Egypt Automotive Multiphase Buck Converter Revenue Growth 2021-2026 ($ millions)
Figure 67. South Africa Automotive Multiphase Buck Converter Revenue Growth 2021-2026 ($ millions)
Figure 68. Israel Automotive Multiphase Buck Converter Revenue Growth 2021-2026 ($ millions)
Figure 69. Turkey Automotive Multiphase Buck Converter Revenue Growth 2021-2026 ($ millions)
Figure 70. GCC Countries Automotive Multiphase Buck Converter Revenue Growth 2021-2026 ($ millions)
Figure 71. Manufacturing Cost Structure Analysis of Automotive Multiphase Buck Converter in 2026
Figure 72. Manufacturing Process Analysis of Automotive Multiphase Buck Converter
Figure 73. Industry Chain Structure of Automotive Multiphase Buck Converter
Figure 74. Channels of Distribution
Figure 75. Global Automotive Multiphase Buck Converter Sales Market Forecast by Region (2027-2032)
Figure 76. Global Automotive Multiphase Buck Converter Revenue Market Share Forecast by Region (2027-2032)
Figure 77. Global Automotive Multiphase Buck Converter Sales Market Share Forecast by Type (2027-2032)
Figure 78. Global Automotive Multiphase Buck Converter Revenue Market Share Forecast by Type (2027-2032)
Figure 79. Global Automotive Multiphase Buck Converter Sales Market Share Forecast by Application (2027-2032)
Figure 80. Global Automotive Multiphase Buck Converter Revenue Market Share Forecast by Application (2027-2032)

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