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Global DC-DC Converter Chip 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 DC-DC Converter Chip market size was valued at US$ 10440 million in 2024 and is forecast to a readjusted size of USD 16290 million by 2031 with a CAGR of 6.6% during review period.

DC/DC converter is a switching power supply chip, which means that it uses the property of energy storage of capacitors and inductors to perform high-frequency switching action through controllable switches (MOSFETs, etc.) to store the input electrical energy in the capacitor (inductor), and when the switch is disconnected, the electrical energy is then released to the load to provide energy. Its ability to output power or voltage is related to the duty cycle (the ratio of the on-time by the switch to the whole cycle of the switch). Switching power supplies can be used for step-up and step-down.

The global market for DC-DC converter chips has been experiencing substantial growth due to the increasing demand for power management solutions in various industries. However, as specific market data can vary depending on the source and time frame of the analysis, I can provide a general overview of the global DC-DC converter chip market:

Market Size: The market size of DC-DC converter chips has been steadily increasing over the years. Factors such as the rising adoption of portable electronic devices, the growing demand for energy-efficient solutions, and the expansion of industries like automotive, telecommunications, healthcare, and industrial automation contribute to the market’s growth.

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Key Players: There are several major companies operating in the DC-DC converter chip market. Prominent players include Texas Instruments, Analog Devices, Infineon Technologies, STMicroelectronics, Renesas Electronics, ON Semiconductor, among others. These companies offer a wide range of products and often compete based on factors such as performance, efficiency, and cost.

Market Drivers: Several factors are driving the growth of the global DC-DC converter chip market, including:

a. Increasing Demand for Energy-Efficient Solutions: With a growing emphasis on energy efficiency and conservation, the demand for DC-DC converter chips has increased. These chips enable improved power management, voltage regulation, and energy conversion in various applications.

b. Rising Demand for Portable Electronic Devices: The proliferation of portable electronic devices, such as smartphones, tablets, wearables, and Internet of Things (IoT) devices, has created a need for compact and efficient power management solutions. DC-DC converter chips play a crucial role in powering these devices.

c. Advancements in Industrial Automation: The industrial automation sector is witnessing significant growth, driving the demand for DC-DC converter chips for various applications such as robotics, control systems, and motor drives.

d. Automotive Electrification: The increasing adoption of electric vehicles (EVs) and hybrid electric vehicles (HEVs) requires efficient power management systems. DC-DC converter chips are essential for converting and regulating power between different voltage domains in automotive applications.

Regional Market Trends: The market for DC-DC converter chips is significant across regions, including North America, Europe, Asia Pacific, and the rest of the world. Asia Pacific is expected to dominate the market due to the presence of major electronics manufacturers and the booming smartphone and automotive industries in countries like China, South Korea, and Japan.

Technological Advancements: Continuous innovations in DC-DC converter chip design, such as higher power densities, improved efficiency, increased integration, and advanced control features, are driving market growth. These advancements aim to address the evolving power management needs of various industries.

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

Global DC-DC Converter Chip 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 DC-DC Converter Chip 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 DC-DC Converter Chip 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 DC-DC Converter Chip
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 DC-DC Converter Chip 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 STMicroelectronics, Diodes Incorporated, ROHM Semiconductor, Texas Instruments, Infineon Technologies, Princeton Technology, NXP, On Semiconductor, Qorvo, Rochester Electronics, etc.

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

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Market Segmentation

DC-DC Converter Chip 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

DC DC Converters Chip

SMPS Chip

Others

Market segment by Application

Automotive

LED Lighting

Consumer Electronics

Others

Major players covered

STMicroelectronics

Diodes Incorporated

ROHM Semiconductor

Texas Instruments

Infineon Technologies

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Princeton Technology

NXP

On Semiconductor

Qorvo

Rochester Electronics

Fuji Electric

Microchip Technology

Analog Devices

Shenzhen Lianyi Electronics

H&M Semiconductor

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 DC-DC Converter Chip product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of DC-DC Converter Chip, with price, sales quantity, revenue, and global market share of DC-DC Converter Chip from 2020 to 2025.

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

Chapter 4, the DC-DC Converter Chip 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 DC-DC Converter Chip 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 DC-DC Converter Chip.

Chapter 14 and 15, to describe DC-DC Converter Chip sales channel, distributors, customers, research findings and conclusion.

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