

Global Unidirectional Buck-Boost Chip Market 2026 by Manufacturers, Regions, Type and Application, Forecast to 2032

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Abstracts

According to our (Global Info Research) latest study, the global Unidirectional Buck-Boost Chip market size was valued at US\$ 514 million in 2025 and is forecast to a readjusted size of US\$ 793 million by 2032 with a CAGR of 6.3% during review period.

Unidirectional Buck-Boost Chip is a power management integrated circuit designed to provide efficient step-up and step-down voltage conversion in a single direction, enabling stable power delivery from battery systems to load devices under varying input conditions. It integrates control logic and power switching functions to optimize energy transfer, improve conversion efficiency, and ensure system stability, making it suitable for portable electronics requiring compact design and reliable performance. Its advantages include high efficiency, seamless voltage transition, and strong adaptability to different battery states. In 2025, the capacity utilization rate was about 80%, and the average gross margin reached approximately 35%, reflecting solid operating efficiency and favorable profitability. Production in 2025 totaled 714 million units, with an average price of \$0.7 per unit. The upstream primarily consists of silicon wafers, photolithography machines, and etching/deposition equipment, forming the foundation of semiconductor manufacturing. The midstream focuses on chip design, wafer fabrication, testing, and packaging, which determine performance, efficiency, and reliability. The downstream is mainly concentrated in outdoor power supplies and power banks, with key customers including Anker, EcoFlow, Xiaomi, and Baseus.

Unidirectional Buck-Boost Chip plays a critical role in portable power systems where stable voltage delivery and efficient energy conversion are required. In applications such as outdoor power supplies and power banks, it enables seamless transition between buck and boost modes, supporting consistent output under varying battery

conditions. As devices move toward higher power density, fast-charging capability, and multi-port configurations, demand for efficient and compact power solutions continues to strengthen. However, integration trends in lower-power segments are gradually reducing the need for discrete solutions, creating competitive pressure on standalone chips. As a result, suppliers are increasingly focused on improving efficiency, thermal performance, and system integration capabilities to maintain competitiveness. The market is evolving toward application-driven demand, where performance reliability and adaptability to complex power architectures define long-term value and profitability.

This report is a detailed and comprehensive analysis for global Unidirectional Buck-Boost 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 Unidirectional Buck-Boost Chip market size and forecasts, in consumption value (\$ Million), sales quantity (Million Units), and average selling prices (US\$/Unit), 2021-2032

Global Unidirectional Buck-Boost Chip market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (Million Units), and average selling prices (US\$/Unit), 2021-2032

Global Unidirectional Buck-Boost Chip market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (Million Units), and average selling prices (US\$/Unit), 2021-2032

Global Unidirectional Buck-Boost Chip market shares of main players, shipments in revenue (\$ Million), sales quantity (Million Units), and ASP (US\$/Unit), 2021-2026

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 Unidirectional Buck-Boost 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 Unidirectional Buck-Boost 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 Analog Devices, Microsemi, Renesas Electronics, Southchip, Silergy, JoulWatt Technology, Zhuhai iSmartware Technology, Powlicon, Hangzhou Silan Microelectronics, Shenzhen Injoinic Technology, etc.

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

Market Segmentation

Unidirectional Buck-Boost Chip market is split by Type and by Application. For the period 2021-2032, 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

40V

60V

80V

Market segment by Control Architecture

PWM Control

PFM Control

Others

Market segment by Package

SOT-23

QFN/DFN

Others

Market segment by Application

Outdoor Power Station

Power Bank

Major players covered

Analog Devices

Microsemi

Renesas Electronics

Southchip

Silergy

JoulWatt Technology

Zhuhai iSmartware Technology

Powlicon

Hangzhou Silan Microelectronics

Shenzhen Injoinic Technology

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 Unidirectional Buck-Boost Chip product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Unidirectional Buck-Boost Chip, with price, sales quantity, revenue, and global market share of Unidirectional Buck-Boost Chip from 2021 to 2026.

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

Chapter 4, the Unidirectional Buck-Boost Chip breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2021 to 2032.

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 2021 to 2032.

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 2021 to 2026. and Unidirectional Buck-Boost Chip market forecast, by regions, by Type, and by Application, with sales and revenue, from 2027 to 2032.

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 Unidirectional Buck-Boost Chip.

Chapter 14 and 15, to describe Unidirectional Buck-Boost Chip sales channel, distributors, customers, research findings and conclusion.

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