

Global Unidirectional Buck-Boost Chip Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Unidirectional Buck-Boost Chip market size is expected to reach \$ 793 million by 2032, rising at a market growth of 6.3% CAGR during the forecast period (2026-2032).

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 studies the global Unidirectional Buck-Boost Chip production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Unidirectional Buck-Boost Chip and provides market size (US\$ million) and Year-over-Year (YoY) Growth, considering 2025 as the base year. This report explores demand trends and competition, as well as details the characteristics of Unidirectional Buck-Boost Chip that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Unidirectional Buck-Boost Chip total production and demand, 2021-2032, (Million Units)

Global Unidirectional Buck-Boost Chip total production value, 2021-2032, (USD Million)

Global Unidirectional Buck-Boost Chip production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Million Units), (based on production site)

Global Unidirectional Buck-Boost Chip consumption by region & country, CAGR, 2021-2032 & (Million Units)

U.S. VS China: Unidirectional Buck-Boost Chip domestic production, consumption, key domestic manufacturers and share

Global Unidirectional Buck-Boost Chip production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Million Units)

Global Unidirectional Buck-Boost Chip production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Million Units)

Global Unidirectional Buck-Boost Chip production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Million Units)

This report profiles key players in the global Unidirectional Buck-Boost Chip market based on the following parameters - company overview, production, value, 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.

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the World Unidirectional Buck-Boost Chip market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (Million Units) and average price (US\$/Unit) by manufacturer, by Type, and by Application. Data is given for the years 2021-2032 by year with 2025 as the base year, 2026 as the estimate year, and 2027-2032 as the forecast year.

Global Unidirectional Buck-Boost Chip Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Unidirectional Buck-Boost Chip Market, Segmentation by Type:

40V

60V

80V

Global Unidirectional Buck-Boost Chip Market, Segmentation by Control Architecture:

PWM Control

PFM Control

Others

Global Unidirectional Buck-Boost Chip Market, Segmentation by Package:

SOT-23

QFN/DFN

Others

Global Unidirectional Buck-Boost Chip Market, Segmentation by Application:

Outdoor Power Station

Power Bank

Companies Profiled:

Analog Devices

Microsemi

Renesas Electronics

Southchip

Silergy

JoulWatt Technology

Zhuhai iSmartware Technology

Powlicon

Hangzhou Silan Microelectronics

Shenzhen Injoinic Technology

Key Questions Answered:

1. How big is the global Unidirectional Buck-Boost Chip market?
2. What is the demand of the global Unidirectional Buck-Boost Chip market?
3. What is the year over year growth of the global Unidirectional Buck-Boost Chip market?
4. What is the production and production value of the global Unidirectional Buck-Boost Chip market?
5. Who are the key producers in the global Unidirectional Buck-Boost Chip market?
6. What are the growth factors driving the market demand?

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