

# Global Unidirectional Buck-Boost Chip Market Growth 2026-2032

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## Abstracts

The global Unidirectional Buck-Boost Chip market size is predicted to grow from US\$ 489 million in 2025 to US\$ 771 million in 2032; it is expected to grow at a CAGR of 6.7% from 2026 to 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.

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

This Insight Report provides a comprehensive analysis of the global Unidirectional Buck-Boost Chip 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 Unidirectional Buck-Boost Chip portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global Unidirectional Buck-Boost Chip market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Unidirectional Buck-Boost Chip 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 Unidirectional Buck-Boost Chip.

This report presents a comprehensive overview, market shares, and growth opportunities of Unidirectional Buck-Boost Chip market by product type, application, key manufacturers and key regions and countries.

Segmentation by Type:

40V

60V

80V

#### Segmentation by Control Architecture:

PWM Control

PFM Control

Others

#### Segmentation by Package:

SOT-23

QFN/DFN

Others

#### Segmentation by Application:

Outdoor Power Station

Power Bank

#### This report also splits the market by region:

Americas

United States

Canada

Mexico

Brazil

## APAC

China

Japan

Korea

Southeast Asia

India

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.

Analog Devices

Microsemi

Renesas Electronics

Southchip

Silergy

JoulWatt Technology

Zhuhai iSmartware Technology

Powlicon

Hangzhou Silan Microelectronics

Shenzhen Injoinic Technology

### **Key Questions Addressed in this Report**

What is the 10-year outlook for the global Unidirectional Buck-Boost Chip market?

What factors are driving Unidirectional Buck-Boost Chip market growth, globally and by region?

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

How do Unidirectional Buck-Boost Chip market opportunities vary by end market size?

How does Unidirectional Buck-Boost Chip break out by Type, by Application?

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