

# Global Buck-Boost Controller Supply, Demand and Key Producers, 2026-2032

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## Abstracts

The global Buck-Boost Controller market size is expected to reach \$ 2032 million by 2032, rising at a market growth of 6.2% CAGR during the forecast period (2026-2032).

Buck-Boost Controller is a power control integrated circuit that manages external switching components to achieve both step-up and step-down voltage regulation, ensuring stable and efficient power conversion across varying battery conditions. Unlike fully integrated power chips, it focuses on control logic, driving MOSFETs and optimizing switching behavior to deliver flexible, high-efficiency solutions for diverse power architectures. It is widely used in portable electronic systems to maintain consistent power delivery, improve energy efficiency, and extend battery life, particularly in applications requiring higher power scalability and design flexibility. 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 2,167 million units, with an average price of \$0.6 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 controller 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.

Buck-Boost Controller is increasingly used in power systems requiring flexible voltage regulation and scalable design. In applications such as outdoor power supplies and power banks, it enables efficient control of external power devices, supporting higher power output and better thermal performance. As devices evolve toward fast charging, multi-port output, and higher energy density, demand for precise control and dynamic

response continues to grow. However, integration trends in cost-sensitive segments limit standalone controller adoption. As a result, controllers remain focused on high-performance applications, with profitability driven by efficiency, system optimization, and compatibility with advanced charging requirements.

This report studies the global Buck-Boost Controller production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Buck-Boost Controller 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 Buck-Boost Controller that contribute to its increasing demand across many markets.

### **Highlights and key features of the study**

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

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

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

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

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

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

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

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

This report profiles key players in the global Buck-Boost Controller 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 Southchip, Silergy, JoulWatt Technology, Zhuhai iSmartware Technology, Powlicon, Hangzhou Silan Microelectronics, Shenzhen Injoinic Technology, Texas Instruments, si-power, Renesas Electronics, 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 Buck-Boost Controller 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 Buck-Boost Controller Market, By Region:**

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

### **Global Buck-Boost Controller Market, Segmentation by Type:**

Bidirectional

Unidirectional

### **Global Buck-Boost Controller Market, Segmentation by Control Architecture:**

PWM Control

PFM Control

Others

#### Global Buck-Boost Controller Market, Segmentation by Package:

SOT-23

QFN/DFN

Others

#### Global Buck-Boost Controller Market, Segmentation by Application:

Outdoor Power Station

Power Bank

#### Companies Profiled:

Southchip

Silergy

JoulWatt Technology

Zhuhai iSmartware Technology

Powlicon

Hangzhou Silan Microelectronics

Shenzhen Injoinic Technology

Texas Instruments

si-power

Renesas Electronics

**Key Questions Answered:**

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

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