

Global Aerospace Buck-Boost Converter Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Aerospace Buck-Boost Converter market size is expected to reach \$ 1452 million by 2032, rising at a market growth of 6.2% CAGR during the forecast period (2026-2032).

In 2024, global Aerospace Buck-Boost Converter production reached approximately 581 thousand units, with an average global market price of around US\$ 1,480 per unit.

The gross profit margin of major companies in the industry is between 38% – 57%.

Single-line production capacity is 22,000 – 48,000 units/year.

Aerospace buck-boost converters are high-reliability DC–DC power conversion modules designed to regulate voltage levels in spacecraft, satellites, avionics, and aerospace power systems. They stabilize electrical output under extreme temperature, vibration, and radiation conditions to ensure continuous power supply for critical onboard electronics.

The aerospace buck-boost converter market is expanding due to increased satellite launches, deep-space missions, and the rapid growth of commercial space activities. These converters play a critical role in maintaining stable power across fluctuating bus voltages and variable loads. Manufacturers focus on radiation-hardened components, high-efficiency topologies, thermal-optimized layouts, and low-noise performance to meet aerospace standards. The rise of small satellites, CubeSats, and electric propulsion systems further increases demand for compact, lightweight conversion modules. As defense and commercial aerospace systems continue to adopt more electronics, the need for reliable and efficient power conditioning units will remain

strong.

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

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

Highlights and key features of the study

Global Aerospace Buck-Boost Converter total production and demand, 2021-2032, (K Units)

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

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

Global Aerospace Buck-Boost Converter consumption by region & country, CAGR, 2021-2032 & (K Units)

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

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

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

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

This report profiles key players in the global Aerospace Buck-Boost Converter 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 Thales Group, Infineon Technologies AG, Microchip Technology, Vicor Corporation, Texas Instruments, Crane Aerospace and Electronics, Asp Equipment GmbH, Synqor Inc., Sital S.P.A, VPT Power Inc., 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 Aerospace Buck-Boost Converter market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (K 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 Aerospace Buck-Boost Converter Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Aerospace Buck-Boost Converter Market, Segmentation by Type:

Satellite-Grade Converter

Launch Vehicle-Grade Converter

Spacecraft Payload Converter

Global Aerospace Buck-Boost Converter Market, Segmentation by Converter Type:

DC-DC Buck Converter

DC-DC Boost Converter

DC-DC Buck-Boost Converter

Global Aerospace Buck-Boost Converter Market, Segmentation by Control Method:

PWM Controlled Converter

Synchronous Converter

Digital Controlled Converter

Global Aerospace Buck-Boost Converter Market, Segmentation by Application:

Remote Sensing

Surveillance

Communication

Navigation

Scientific Research

Companies Profiled:

Thales Group

Infineon Technologies AG

Microchip Technology

Vicor Corporation

Texas Instruments

Crane Aerospace and Electronics

Asp Equipment GmbH

Synqor Inc.

Sitael S.P.A

VPT Power Inc.

Peregrine Semiconductor Corp

XP Power

Gaia Converter

Vishay

Key Questions Answered:

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

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