

Global Aerospace Buck-Boost Converter 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 Aerospace Buck-Boost Converter market size was valued at US\$ 955 million in 2025 and is forecast to a readjusted size of US\$ 1452 million by 2032 with a CAGR of 6.2% during review period.

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

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

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

Global Aerospace Buck-Boost Converter market shares of main players, shipments in revenue (\$ Million), sales quantity (K 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 Aerospace Buck-Boost Converter

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 Aerospace Buck-Boost Converter 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 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., etc. This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

Market Segmentation

Aerospace Buck-Boost Converter 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

Satellite-Grade Converter

Launch Vehicle-Grade Converter

Spacecraft Payload Converter

Market segment by Converter Type

DC-DC Buck Converter

DC-DC Boost Converter

DC-DC Buck-Boost Converter

Market segment by Control Method

PWM Controlled Converter

Synchronous Converter

Digital Controlled Converter

Market segment by Application

Remote Sensing

Surveillance

Communication

Navigation

Scientific Research

Major players covered

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

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 Aerospace Buck-Boost Converter product scope, market overview, market estimation caveats and base year.

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

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

Chapter 4, the Aerospace Buck-Boost Converter 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 Aerospace Buck-Boost Converter 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 Aerospace Buck-Boost Converter.

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

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