

# Global Monolithic Buck Converter Market Growth 2026-2032

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## Abstracts

The global Monolithic Buck Converter market size is predicted to grow from US\$ 69.46 million in 2025 to US\$ 129 million in 2032; it is expected to grow at a CAGR of 9.3% from 2026 to 2032.

A monolithic buck converter, also referred to as a monolithic step-down switching regulator, is an integrated power-management device that efficiently converts a higher DC input voltage into a lower regulated DC output voltage. Its defining feature is that the control circuitry and part or all of the power switching elements are integrated onto a single semiconductor die, typically in synchronous or asynchronous buck topology. The device is usually packaged in compact forms such as QFN, DFN, LFCSP, BGA, SOT, or WLCSP, and still requires external passive components such as an inductor and capacitors, although higher-integration versions may also incorporate driver stages, protection circuits, compensation blocks, power MOSFETs, and in some cases magnetic components. A typical monolithic buck converter includes a reference source, error amplifier, PWM/PFM control logic, gate drivers, high-side and low-side switches, feedback network, soft-start, power-good indication, and protection functions such as overcurrent, undervoltage, and thermal shutdown. It operates by switching the power stage on and off in a controlled manner so that energy is stored in and released from the inductor, thereby producing a lower and stable output voltage. The product can be classified by rectification method, number of channels, or integration level, and is mainly supplied by analog IC vendors, power semiconductor IDMs, fabless PMIC companies, and selected power-module makers for applications in automotive electronics, industrial control, communications infrastructure, servers, consumer devices, IoT systems, FPGA/SoC rails, portable equipment, and point-of-load power architectures.

From an industry-value perspective, monolithic buck converters sit at the center of the

electronic power chain and benefit simultaneously from the expansion of computing power, edge intelligence, vehicle electrification, industrial digitalization, and higher power density in communications equipment. Compared with linear regulators, they deliver higher efficiency, lower heat dissipation, and a smaller system footprint for multi-rail power architectures. Compared with controller-plus-external-FET solutions, monolithic implementations reduce design complexity, simplify the bill of materials, shorten hot loops for better EMI behavior, and improve manufacturing consistency, which continues to broaden their addressable applications. Today, AI servers, edge modules, ADAS domain controllers, infotainment systems, industrial cameras, 5G radio units, wearables, and portable devices are all raising the bar for switching frequency, efficiency, quiescent current, EMI, and package size, driving the market toward higher integration, wider input ranges, faster switching, multiphase coordination, digital programmability, and automotive-grade robustness. For investors and sourcing decision-makers, the appeal of this segment is not merely shipment growth, but its design-in nature: once qualified into a board, module, or platform reference design, the product often enjoys a longer lifecycle and opens opportunities for cross-selling adjacent PMIC, LDO, monitoring, charging, and protection devices.

That said, the market remains structurally demanding. Monolithic buck devices are highly competitive in low-to-mid and part of the mid-to-high power range, but external-FET controllers and power modules still retain strong positions in applications that require higher current, more aggressive thermal management, or greater design flexibility. As a result, the segment is naturally constrained by power-density and thermal limits. Competition has also shifted beyond efficiency metrics toward process platforms, thermal packaging, EMI performance, functional safety, automotive qualification, supply continuity, and depth of application support. New entrants without wafer access, assembly and test capabilities, automotive-grade quality systems, reference-design ecosystems, and long validation records face major barriers in tier-one applications. In addition, pricing pressure is intense in consumer electronics, general industrial, and cost-sensitive communications equipment, forcing vendors to differentiate via ultra-low IQ, ultra-small packages, low-noise solutions, cold-crank capability, I2C/PMBus programmability, or multiphase high-current offerings. From a policy and supply-chain standpoint, geopolitical shifts, mature-node capacity allocation, automotive-grade delivery stability, and post-merger integration can all affect pricing, lead times, and substitution decisions.

Looking downstream, future demand will not be driven only by more devices, but by more rails, tighter tolerances, and faster dynamic response within each device. AI accelerators, server motherboards, industrial edge controllers, smart cockpit systems,

and advanced driver-assistance platforms are pushing demand for low-voltage high-current multiphase rails and dynamic voltage scaling, while portable electronics, IoT nodes, medical monitoring devices, metering systems, and wireless modules are pushing light-load efficiency, standby current, and size constraints even further. Automotive remains especially attractive because multi-voltage domain coexistence, cold-crank and load-dump resilience, AEC-Q100 qualification, and EMC requirements make automotive monolithic buck devices both high-barrier and high-value. Meanwhile, communications and industrial markets reward long-term availability and system reliability, favoring vendors with broad product portfolios and globally distributed manufacturing footprints. In structural terms, the market is likely to bifurcate into a high-performance tier for compute-intensive and reliability-critical platforms, and a platformized long-tail tier for high-volume standard power rails. The companies best positioned for long-term success will be those capable of delivering both flagship high-performance devices and scalable reference designs backed by dependable supply assurance.

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

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

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Monolithic Buck Converter 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 Monolithic Buck Converter.

This report presents a comprehensive overview, market shares, and growth opportunities of Monolithic Buck Converter market by product type, application, key manufacturers and key regions and countries.

#### Segmentation by Type:

300W

600W

800W

Others

#### Segmentation by Rectification Method:

Synchronous Buck Converter

Asynchronous Buck Converter

#### Segmentation by Integration Level:

Controller-Only Buck IC

Buck Regulator with Integrated Power Switches

Power Module with Integrated Magnetics

#### Segmentation by Number of Output Channels:

Single-Channel Buck Converter

Dual-Channel Buck Converter

Multi-Channel Buck Converter

Segmentation by Application:

Automotive

Healthcare

Information & Telecommunication

Consumer Goods

Aerospace & Defense

Others

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

Monolithic Power Systems

Texas Instruments

Murata Manufacturing

Infineon Technologies

STMicroelectronics

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Renesas Electronics

Diodes Incorporated

Microchip Technology

SG Micro

Alpha and Omega Semiconductor

Torex Semiconductor

Kinetic Technologies

Nexperia

Semtech

Skyworks Solutions

uPI Semiconductor

Fitipower Integrated Technology

Global Mixed-mode Technology

3PEAK

Hangzhou Silan Microelectronics

ETA Semiconductor

Southchip Semiconductor

Injoinic Technology

MediaTek

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

What is the 10-year outlook for the global Monolithic Buck Converter market?

What factors are driving Monolithic Buck Converter market growth, globally and by region?

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

How do Monolithic Buck Converter market opportunities vary by end market size?

How does Monolithic Buck Converter break out by Type, by Application?

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