

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

<https://marketpublishers.com/r/G3E23A697ED2EN.html>

Date: May 2026

Pages: 192

Price: US\$ 4,480.00 (Single User License)

ID: G3E23A697ED2EN

Abstracts

The global Monolithic Buck Converter market size is expected to reach \$ 132 million by 2032, rising at a market growth of 8.8% CAGR during the forecast period (2026-2032).

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.

This report studies the global Monolithic Buck Converter production, demand, key manufacturers, and key regions.

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

Highlights and key features of the study

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

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

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

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

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

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

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

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

This report profiles key players in the global Monolithic Buck 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 Analog Devices, Monolithic Power Systems, Texas Instruments, Murata Manufacturing, Infineon Technologies, STMicroelectronics, onsemi, Renesas Electronics, Diodes Incorporated, Microchip Technology, 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 Monolithic Buck Converter market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (K Units) and average price (USD/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 Monolithic Buck Converter Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Monolithic Buck Converter Market, Segmentation by Type:

300W

600W

800W

Others

Global Monolithic Buck Converter Market, Segmentation by Rectification Method:

Synchronous Buck Converter

Asynchronous Buck Converter

Global Monolithic Buck Converter Market, Segmentation by Integration Level:

Controller-Only Buck IC

Buck Regulator with Integrated Power Switches

Power Module with Integrated Magnetics

Global Monolithic Buck Converter Market, Segmentation by Number of Output Channels:

Single-Channel Buck Converter

Dual-Channel Buck Converter

Multi-Channel Buck Converter

Global Monolithic Buck Converter Market, Segmentation by Application:

Automotive

Healthcare

Information & Telecommunication

Consumer Goods

Aerospace & Defense

Others

Companies Profiled:

Analog Devices

Monolithic Power Systems

Texas Instruments

Murata Manufacturing

Infineon Technologies

STMicroelectronics

onsemi

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 Answered:

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

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