

# Global Monolithic Buck Converter Market 2026 by Manufacturers, Regions, Type and Application, Forecast to 2032

<https://marketpublishers.com/r/GCCC9B8705D6EN.html>

Date: May 2026

Pages: 182

Price: US\$ 3,480.00 (Single User License)

ID: GCCC9B8705D6EN

## Abstracts

According to our (Global Info Research) latest study, the global Monolithic Buck Converter market size was valued at US\$ 73.06 million in 2025 and is forecast to a readjusted size of US\$ 132 million by 2032 with a CAGR of 8.8% during review period.

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

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

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

Global Monolithic Buck Converter market shares of main players, shipments in revenue

(\$ Million), sales quantity (K Units), and ASP (USD/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 Monolithic Buck 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 Monolithic Buck 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 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.

### **Market Segmentation**

Monolithic Buck 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

300W

600W

800W

Others

Market segment by Rectification Method

Synchronous Buck Converter

Asynchronous Buck Converter

Market segment by Integration Level

Controller-Only Buck IC

Buck Regulator with Integrated Power Switches

Power Module with Integrated Magnetics

Market segment by Number of Output Channels

Single-Channel Buck Converter

Dual-Channel Buck Converter

Multi-Channel Buck Converter

Market segment by Application

Automotive

Healthcare

Information & Telecommunication

Consumer Goods

Aerospace & Defense

Others

### Major players covered

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

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 Monolithic Buck Converter product scope, market overview, market estimation caveats and base year.

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

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

Chapter 4, the Monolithic Buck 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 Monolithic Buck 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 Monolithic Buck Converter.

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

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