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Global Standard Power Management ICs Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Standard Power Management ICs market size is expected to reach $ 70972 million by 2032, rising at a market growth of 7.6% CAGR during the forecast period (2026-2032).

Standard power management ICs are a category of standardized integrated circuits that provide power conversion, voltage distribution, sequencing control, status monitoring, and fault protection for electronic systems. Their core value lies in integrating functions that were previously discrete, such as buck conversion, boost conversion, linear regulation, load switching, charging, battery monitoring, and multi rail sequencing, into more compact, more efficient, and easier to deploy devices or platforms, thereby reducing bill of materials count, shrinking board area, simplifying power tree design, and improving reliability. This category includes both multi channel PMICs for processors, microcontrollers, memory, solid state drives, camera modules, and display modules, as well as standard power management devices for smartphones, wearables, industrial control, automotive cameras, ADAS, in vehicle infotainment, auxiliary energy storage units, and various adapters and fast charging power supplies. Its key technology paradigms typically include coordinated integration of multiple buck converters and LDOs, programmable or preconfigured sequencing control, low quiescent current, high frequency switching, low noise power delivery, over voltage, over current, and over temperature protection, and highly reliable designs oriented toward automotive grade and functional safety requirements. As end products continue to move toward higher integration, miniaturization, and lower power consumption, standard power management ICs are evolving from single regulators into system level power tree solutions for complete devices, and are delivered to OEMs, solution providers, module makers, and automotive electronics customers through parametric product portfolios, reference designs, evaluation boards, long term supply programs, and local technical

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support, creating a business model centered on standard part number sales and supplemented by platform adoption and lifecycle services. In industry terms, this is both an important subsegment of analog and mixed signal semiconductors and a critical interface linking upstream wafer manufacturing with downstream system innovation efficiency.

The industry focus of standard power management ICs is shifting toward system-level power supply platforms that provide higher integration, stronger coordination, and lower development barriers around the complete power tree of end products. From Texas Instruments, Analog Devices, Renesas, ROHM, SG Micro, Southchip, Richtek, and Hynetek, an increasing number of products emphasize combinations of multi-channel Buck converters and LDOs, power-up sequencing control, fault monitoring, load switches, and direct adaptation to processors, memory, camera modules, and display modules. This indicates that when customers purchase standard power management ICs, they place greater emphasis on the reusability of the overall power architecture, design efficiency, and system reliability. For terminal device manufacturers, adopting standardized PMIC solutions can reduce the number of peripheral components, shorten debugging cycles, lower board-level area occupation, and achieve a better balance between miniaturization and low power consumption. Especially against the backdrop of continuously increasing device functions and continuously shrinking space, power management ICs are evolving from basic supporting components into key elements that affect overall device performance, thermal design, and time to market. This change essentially reflects an upgrade in terminal design methodology. In the past, customers could build the power tree one by one using discrete components. Today, however, processors, sensors, interfaces, and memory units require an increasing number of voltage rails, while power-on and sleep processes are becoming more complex. Relying solely on discrete solutions often means greater PCB layout difficulty, longer validation time, and higher failure risk. Therefore, PMICs that can standardize power supply, sequencing, monitoring, and protection into an integrated output are evolving from cost optimization tools into foundational platforms for shortening R&D cycles and improving mass production consistency. From the perspective of downstream demand structure, automotive electronics is becoming the most certain source of value growth for standard power management ICs. Official product information from Infineon, onsemi, Richtek, Southchip, Hynetek, and other manufacturers shows that in-vehicle cameras, ADAS, safety systems, and high-reliability body electronics are imposing higher requirements on multi-output capability, high frequency, low noise, and monitoring and protection functions, driving the continued enrichment of automotive-grade PMICs, automotive LDOs, and automotive system power ICs. At the same time, mobile terminals and wearable devices remain the shipment base, with Samsung, Analog Devices, ABLIC,

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and other manufacturers continuing to optimize their Power IC and PMIC portfolios around size, efficiency, and quiescent current. Another growth line worth attention is power supply for processors, DDR, SSDs, and industrial control peripherals. The product directions of Texas Instruments, Renesas, SG Micro, Silergy, and Richtek all indicate that standard PMICs are penetrating more computing and storage platforms. Although different downstream sectors vary in terminal form, their technical requirements for power management are converging toward four directions: high integration, high efficiency, low noise, and high reliability. This gives standard power management ICs strong product reusability and cross-cycle resilience. Because downstream markets are expanding in volume while also increasing in complexity, this segment is not simply dependent on one terminal industry, but is benefiting simultaneously from the parallel expansion of automotive intelligence, industrial digitalization, edge computing, and high-density storage. In terms of regional competition, standard power management ICs still show a clear pattern of global multi-polar supply and concentrated application in Asia. U.S. and European manufacturers still have deep accumulation in platform-type PMICs, automotive-grade and functional safety products, high-end analog design methodologies, and global customer coverage. Japanese manufacturers maintain advantages in ultra-low power consumption, system power supply, and automotive electronics reliability, while Korean manufacturers have ecosystem synergy in mobile terminals, displays, and certain automotive display power supply applications. Meanwhile, manufacturers in mainland China and Taiwan are rapidly strengthening mid-to-high-end power management capabilities, extending from fast charging, display, and MCU power supply to automotive cameras, storage, and industrial scenarios, with clear improvements in product line completeness and local support capabilities. The policy environment is also generally positive. The United States and Europe continue to strengthen the resilience of their domestic semiconductor supply chains, while China continues to improve the design, validation, and adoption environment through integrated circuit industry promotion and the development of automotive chip standard systems. This also means that industry competition will gradually shift toward comprehensive competition in product portfolio, application understanding, reference design depth, and regional customer service capability. Companies that can cover multiple consumer, industrial, and automotive scenarios on the same platform, and that can provide more mature evaluation boards, design documents, and local FAE support beyond standard part numbers, will be more likely to upgrade single-device sales into platform-based customer relationships. In this sense, the optimistic outlook for the standard power management IC industry comes not only from the growth in terminal device volume, but also from the rising value density brought by increasing single-device power complexity.

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This report studies the global Standard Power Management ICs production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Standard Power Management ICs 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 Standard Power Management ICs that contribute to its increasing demand across many markets.

Highlights and key features of the study
Global Standard Power Management ICs total production and demand, 2021-2032, (Million Units)
Global Standard Power Management ICs total production value, 2021-2032, (USD Million)
Global Standard Power Management ICs production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Million Units), (based on production site)
Global Standard Power Management ICs consumption by region & country, CAGR, 2021-2032 & (Million Units)
U.S. VS China: Standard Power Management ICs domestic production, consumption, key domestic manufacturers and share
Global Standard Power Management ICs production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Million Units)
Global Standard Power Management ICs production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Million Units)
Global Standard Power Management ICs production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Million Units)

This report profiles key players in the global Standard Power Management ICs 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 Chipown, Sino Wealth Electronic, Poweron, MR Semiconductor, Texas Instruments, MPS (Monolithic Power Systems), PI (Power Integrations), Silergy Corporation, On-Bright Electronics Incorporated, Hangzhou Silan Microelectronics, 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

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used in analyzing the World Standard Power Management ICs market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US$ Millions), volume (production, consumption) & (Million 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 Standard Power Management ICs Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Standard Power Management ICs Market, Segmentation by Type:

AC-DC ICs

PFC ICs

PFM/PWM Control ICs

Others

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Global Standard Power Management ICs Market, Segmentation by Product Type:

PMIC

Charging Management IC

Battery Management IC

Display Power IC

Other

Global Standard Power Management ICs Market, Segmentation by Interface Type:

Analog Control

Digital Control

Hybrid Control

No Control Interface

Global Standard Power Management ICs Market, Segmentation by Application:

Consumer Electronics

Computing and Communications Equipment

Automotive Electronics

Industrial and Energy Equipment

Medical and Other Specialized Equipment

Other

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Companies Profiled:

- Chipown
- Sino Wealth Electronic
- Poweron
- MR Semiconductor
- Texas Instruments
- MPS (Monolithic Power Systems)
- PI (Power Integrations)
- Silergy Corporation
- On-Bright Electronics Incorporated
- Hangzhou Silan Microelectronics
- Fine Made Microelectronics
- SG Micro
- Will Semiconductor
- Halo Microelectronics
- Wuxi Etek Microelectronics
- Analog Devices, Inc.
- Infineon Technologies AG
- STMicroelectronics N.V.
- onsemi

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Microchip Technology Inc.

NXP Semiconductors N.V.

Qorvo, Inc.

Renesas Electronics Corporation

ROHM Co., Ltd.

Toshiba Electronic Devices & Storage Corporation

ABLIC Inc.

Silicon Mitus, Inc.

Magnachip Semiconductor Corporation

Samsung Electronics Co., Ltd.

Southchip Semiconductor Technology Co., Ltd.

Shanghai Awinic Technology Co., Ltd.

JoulWatt Technology Co., Ltd.

Richtek Technology Corporation

Global Mixed-mode Technology Inc.

Key Questions Answered:
1. How big is the global Standard Power Management ICs market?
2. What is the demand of the global Standard Power Management ICs market?
3. What is the year over year growth of the global Standard Power Management ICs market?
4. What is the production and production value of the global Standard Power Management ICs market?

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5. Who are the key producers in the global Standard Power Management ICs market?
6. What are the growth factors driving the market demand?

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info@marketpublishers.com

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