

Global PMIC for Smartphones Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global PMIC for Smartphones market size is expected to reach \$ 8736 million by 2032, rising at a market growth of 5.1% CAGR during the forecast period (2026-2032).

Smartphone Power Management Integrated Circuits, or PMICs, are highly integrated analog and mixed-signal chips designed to address battery life, fast-charging efficiency, system stability, thermal control, and coordinated power delivery across multiple subsystems in a handset. Their core function is to regulate, distribute, sequence, protect, and convert power among the single-cell battery, adapter input, and internal system rails, while supplying matched voltage and current to application processors, display panels, camera modules, memory, and peripheral blocks according to each load's operating characteristics. Official product pages show that this is not a single device category but a portfolio consisting of main PMICs, charger ICs, direct-charge and charge-pump fast-charging ICs, display PMICs, camera PMICs, and multi-channel PMICs for SoCs or memory. The most important technical paradigms are high efficiency, low noise, high integration, fast transient response, I2C programmability, power sequencing, and fault monitoring. Typical customers include smartphone brands, ODMs, motherboard and module suppliers, and platform solution providers. Common delivery models include standard products, platform-matched devices, and customized subsystem PMICs. Commercially, demand tends to scale with platform design wins and handset volume ramps, and is further supported by faster charging, more advanced imaging systems, higher OLED penetration, increasingly complex power requirements from on-device AI, and regulatory standardization of charging interfaces.

The core change in the smartphone PMIC industry is not merely an upgrade from lower-spec devices to higher-spec devices, but a transition from discrete power supply components to whole-system coordinated power management. As application

processors, basebands, memory, displays, imaging modules, and wireless connectivity blocks continue to stack within flagship smartphones, the power system has become a foundational driver of overall device experience. Official product pages show that leading vendors have clearly expanded from single-point regulators into portfolios covering main PMICs, display PMICs, camera PMICs, charger ICs, direct-charge and charge-pump devices, and multi-channel solutions for SoCs. Their shared features are higher integration, stronger sequencing control, more complete fault protection, and better dynamic efficiency. Samsung explicitly separates mobile power into Charge IC, Display PMIC, SoC PMIC, and Camera PMIC, while Renesas emphasizes the sequencing and protection capabilities of multi-channel PMICs for processors, and Southchip directly positions AMOLED, LPDDR, and single-cell battery systems as PMIC product directions. This indicates that competition in this market is shifting toward which supplier can better understand smartphone power architecture, rather than simply who can offer an individual power converter. In the future, mainstream PMIC vendors will build stronger barriers through joint definition of the power tree with platform, module, and handset customers, shorter tuning cycles, and improved overall device experience.

On the demand side, fast charging, imaging, and on-device AI are collectively raising both the technical threshold and the content value of smartphone PMICs. In fast charging, official materials from Richtek and SG Micro both highlight high efficiency, high current, power-path management, and programmability as core selling points, showing that energy conversion efficiency from battery input to system output has become one of the most sensitive metrics for customers. In imaging, camera PMICs such as Awinic's AW37007 emphasize high PSRR, low noise, and programmable power-up sequencing, essentially addressing the need for clean power and consistent timing in multi-camera, telephoto, and high-spec image sensor systems. In on-device AI, Samsung's official technical article notes that PMICs support dynamic voltage and frequency scaling for the SoC to optimize the balance between performance and power, while IDC's forecast for GenAI smartphone penetration in 2025 further indicates that power complexity in flagship and upper-mid-range devices will continue to rise. For the industry, this means smartphone PMICs are no longer merely cost components; they are increasingly becoming experience components and platform components. Their growth logic is also shifting from simply tracking handset shipments toward structural expansion driven jointly by charging upgrades, display upgrades, imaging upgrades, and AI upgrades.

From a regional and policy perspective, the smartphone PMIC industry should remain relatively constructive on both supply and demand. On the supply side, officially

verifiable vendors are mainly concentrated in the United States, Japan, South Korea, and Greater China. U.S. and Japanese suppliers are generally stronger in platform-oriented, multi-channel, and broad power-management capabilities, while Korean and Chinese suppliers are especially active in OLED display power, charge-pump fast charging, camera power, and highly customized niche segments. On the demand side, although the global smartphone market has entered a low-growth phase, IDC still forecasts worldwide smartphone shipments to grow 1.5% in 2025, while AI smartphones continue to increase their share. That provides the PMIC industry with a stable shipment base and clear room for structural upgrading. At the same time, the European Union's requirements for USB-C common charging and harmonized fast charging, together with battery regulations covering information, safety, and sustainability across the full battery lifecycle, will push handset makers to place greater emphasis on charging consistency, efficiency, safety, and system-level management. Taken together, the most certain directions for the next several years will still center on highly integrated main PMICs, fast-charging chains, dedicated display and imaging PMICs, and more programmable system-level power solutions. The overall industry outlook remains positive, and the growth potential of specialized leaders is likely to exceed the average level of the broader analog sector.

This report studies the global PMIC for Smartphones production, demand, key manufacturers, and key regions.

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

Highlights and key features of the study

Global PMIC for Smartphones total production and demand, 2021-2032, (Million Units)

Global PMIC for Smartphones total production value, 2021-2032, (USD Million)

Global PMIC for Smartphones production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Million Units), (based on production site)

Global PMIC for Smartphones consumption by region & country, CAGR, 2021-2032 & (Million Units)

U.S. VS China: PMIC for Smartphones domestic production, consumption, key domestic manufacturers and share

Global PMIC for Smartphones production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Million Units)

Global PMIC for Smartphones production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Million Units)

Global PMIC for Smartphones production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Million Units)

This report profiles key players in the global PMIC for Smartphones 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 Qualcomm, STMicroelectronics, Samsung, MediaTek, Renesas Electronics Corporation, Richtek Technology Corporation, Southchip Semiconductor Technology (Shanghai) Co., Ltd., SG Micro Corp, Halo Microelectronics Co., Ltd., Awinic Technology Co., Ltd., 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 PMIC for Smartphones 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 PMIC for Smartphones Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global PMIC for Smartphones Market, Segmentation by Type:

CMOS Technology

BiCMOS Technology

BCD Technology

Global PMIC for Smartphones Market, Segmentation by Product Role:

Main PMIC

Charging PMIC

Display PMIC

Camera PMIC

Memory PMIC

Global PMIC for Smartphones Market, Segmentation by Integration Depth:

Single-Function Power IC

Subsystem PMIC

System-Level PMIC

Global PMIC for Smartphones Market, Segmentation by Application:

IOS Smartphones

Android Smartphones

Companies Profiled:

Qualcomm

STMicroelectronics

Samsung

MediaTek

Renesas Electronics Corporation

Richtek Technology Corporation

Southchip Semiconductor Technology (Shanghai) Co., Ltd.

SG Micro Corp

Halo Microelectronics Co., Ltd.

Awinic Technology Co., Ltd.

Nisshinbo Micro Devices Inc.

Silicon Mitus, Inc.

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Analog Devices Inc.

Key Questions Answered:

1. How big is the global PMIC for Smartphones market?
2. What is the demand of the global PMIC for Smartphones market?

3. What is the year over year growth of the global PMIC for Smartphones market?
4. What is the production and production value of the global PMIC for Smartphones market?
5. Who are the key producers in the global PMIC for Smartphones market?
6. What are the growth factors driving the market demand?

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