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Global In-Phone Power Management ICs Market 2026 by Manufacturers, Regions, Type and Application, Forecast to 2032

https://marketpublishers.com/r/GA8B58D7B1B4EN.html
Date: August 2026
Pages: 116
Price: US$ 3,480.00 (Single User License)
ID: GA8B58D7B1B4EN

Abstracts

According to our (Global Info Research) latest study, the global In-Phone Power Management ICs market size was valued at US$ 3369 million in 2025 and is forecast to a readjusted size of US$ 4457 million by 2032 with a CAGR of 4.2% during review period.

In-Phone Power Management ICs are integrated circuits installed inside smartphones to perform power conversion, voltage regulation, power distribution, control, monitoring, and protection. They convert energy supplied by the battery or an external charging input into the different voltage and current levels required by application processors, baseband chips, memory, displays, cameras, radio frequency front-end modules, audio systems, sensors, and other functional components. These products include system and processor power management ICs, charging and battery management ICs, display power management ICs, camera power management ICs, radio frequency front-end power management ICs, and other peripheral power management ICs. Their primary purpose is to improve energy efficiency, operational stability, battery life, and device safety. In-Phone Power Management ICs typically cost a few dollars each, with gross margins usually between 40% and 50%.

The upstream supply chain of In-Phone Power Management ICs mainly consists of suppliers of semiconductor wafers, photoresists, electronic gases, sputtering targets, packaging substrates, lead frames, and other semiconductor materials, together with providers of wafer fabrication equipment, analog integrated circuit design tools, specialty analog processes, and assembly and testing services. The midstream segment includes power management integrated circuit design companies, wafer foundries, integrated device manufacturers, and semiconductor assembly and testing

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providers responsible for the design, manufacturing, packaging, and testing of system and processor power management ICs, charging and battery management ICs, display power management ICs, camera power management ICs, radio frequency front-end power management ICs, and other peripheral power ICs. The downstream segment mainly includes smartphone brands, application processor platform suppliers, original design manufacturers, electronics manufacturing service providers, and suppliers of displays, camera modules, radio frequency front ends, batteries, and charging systems. Final applications include flagship smartphones, mid-range smartphones, entry-level smartphones.

In-Phone Power Management ICs are critical components of the semiconductor architecture within smartphones, with market development primarily driven by handset performance upgrades, increasing functional integration, stricter power consumption requirements, and advances in fast charging technologies. As application processors deliver greater computing performance and smartphones adopt more on-device artificial intelligence functions, advanced displays, additional cameras, and increasingly complex radio frequency systems, internal power architectures are becoming more sophisticated. This is driving In-Phone Power Management ICs toward higher integration, greater conversion efficiency, lower quiescent current, faster transient response, and smaller package sizes. Market competition depends not only on chip performance, cost, and reliability, but also on the ability of suppliers to coordinate power design with processor platforms, display systems, camera modules, radio frequency front ends, and charging architectures. Suppliers with system-level power management capabilities, reliable supply systems, and established customer qualification experience are expected to maintain strong competitive positions, while specialized vendors serving display, camera, radio frequency, and fast charging applications will also benefit from continued development opportunities.

This report is a detailed and comprehensive analysis for global In-Phone Power Management ICs 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 In-Phone Power Management ICs market size and forecasts, in consumption

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value ($ Million), sales quantity (K Units), and average selling prices (US$/Unit), 2021-2032

Global In-Phone Power Management ICs market size and forecasts by region and country, in consumption value ($ Million), sales quantity (K Units), and average selling prices (US$/Unit), 2021-2032

Global In-Phone Power Management ICs market size and forecasts, by Type and by Application, in consumption value ($ Million), sales quantity (K Units), and average selling prices (US$/Unit), 2021-2032

Global In-Phone Power Management ICs market shares of main players, shipments in revenue ($ Million), sales quantity (K Units), and ASP (US$/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 In-Phone Power Management ICs

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 In-Phone Power Management ICs 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 Qualcomm, Samsung Semiconductor, Renesas, Skyworks, Analog Devices, Silicon Mitus, TI, STMicroelectronics, onsemi, MediaTek, etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

Market Segmentation

In-Phone Power Management ICs market is split by Type and by Application. For the period 2021-2032, the growth among segments provides accurate calculations and

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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

- System and Processor PMICs
- Battery Management ICs
- Display PMICs
- Camera PMICs
- RF Front-End PMICs
- Others

Market segment by Integration Level

- System-Level PMICs
- Subsystem PMICs
- Single-Function Power ICs

Market segment by Application

- Entry-Level Smartphones
- Mid-Range Smartphones
- Premium and Flagship Smartphones

Major players covered

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Qualcomm

Samsung Semiconductor

Renesas

Skyworks

Analog Devices

Silicon Mitus

TI

STMicroelectronics

onsemi

MediaTek

Silergy

Southchip

SGMICRO

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)

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The content of the study subjects, includes a total of 15 chapters:

Chapter 1, to describe In-Phone Power Management ICs product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of In-Phone Power Management ICs, with price, sales quantity, revenue, and global market share of In-Phone Power Management ICs from 2021 to 2026.

Chapter 3, the In-Phone Power Management ICs competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the In-Phone Power Management ICs 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 In-Phone Power Management ICs 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 In-Phone Power Management ICs.

Chapter 14 and 15, to describe In-Phone Power Management ICs sales channel, distributors, customers, research findings and conclusion.

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