Global Linear Regulator Power Management Ic Market- Growth, Trends, Covid-19 Impact, and Forecasts (2023 - 2028)

Market Report | 2023-01-23 | 120 pages | Mordor Intelligence

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Report description:

The Linear Regulators Power Management IC Market is expected to register a CAGR of 4.6% over the forecast period from (2022 to 2027). Increasing demand for battery-powered devices such as smartphones, tablets, wearable devices, digital cameras, navigation systems, and others is driving the growth of the linear regulator power management IC market. Moreover, technological advancement and the growing trend of energy harvesting technologies also support its growth.

? As a linear regulator can output a lower steady voltage from the input voltage, they are increasingly being used in electronic devices. Inside an electronic device, components such as sensors and MCUs require a steady voltage, a linear regulator IC creates the necessary voltage for subsequent systems mainly from the power supplied by the battery.

? The automotive industry is among the major consumer of linear regulator PMICs. The growth of the automotive industry is expected to drive the growth of the studied market. According to European Automobile Manufacturers Association, Europe's passenger car registrations went up by 8.0% to 11 million units during the first nine months of the year 2021.

? The consumer electronics market has also witnessed significant growth over the past few years. For instance, according to US Census Bureau and CTA, the value of smartphone sales in the United States was forecasted to increase to USD 74.7 billion in 2021. As linear regulator Power Management ICs (PMIC) are used in products such as smartphones, wearables, etc., the demand is expected to witness an upward trend.

? However, limitations of linear regulator PMICs, such as their inability to step up the input voltage, and lower efficiency due to high heat loss, may limit the growth of the studied market in the longer run.

? The significant impact of COVID-19 has been observed on the studied market, primarily due to supply chain disruption and unstable demand across its end-user industries. For instance, the European automotive industry was severely impacted and experienced a decline in overall automotive production due to stringent supply chain disruption caused by imposed lockdowns. However, with the conditions returning to normalcy, the demand for linear regulator Power management ICs (PMIC) is expected to increase in the automotive sector.

Linear Regulator Power Management IC Market Trends

Consumer Electronics Sector to Hold Significant Market Share

? The increasing functionality of consumer electronic products and the growing adoption of smart devices and smart wearables are some of the major factors expected to drive the adoption of Linear Regulator Power Management IC over the forecast period. The growing adoption of like high-performance mobile devices (including 5G) and increasing penetration of advanced technologies, like AI and High-performance computing (HPC), is fuelling the need for Linear Regulator Power Management ICs

? Smartphones command a significant market share, and with the advent of 5G smartphones, the demand is expected to increase even further. Global companies, like Samsung, are increasingly investing in the semiconductor business to become prominent smartphone vendors in the 5G smartphone space.

? The growing adoption of smart wearables, like smartwatches and fitness bands, and their increasing functionality are also expanding the growth of the mobile and consumer segment. Besides this, smart appliances are expected to see significant applications and growth in their sales over the forecast period, owing to the increasing penetration of smart homes. ?

? Many consumer electronic companies are also increasing their investments in the market studied to develop more energy-efficient Power management liner regulators. Several companies are manufacturing energy-efficient ICs, especially for the consumer and sectors.?

? Further, in March 2021, Magnachip Semiconductor Corporation announced the availability of a new low-dropout (LDO) linear regulator with the ultra-fast transient response for use in a Universal Flash Storage (UFS)-based Multi-Chip Package (MCP). UFS is a more advanced version of the Embedded Multi-Media Controller (eMMC), designed for faster read and write performance. A memory module with a UFS controller and memory ICs, such as DRAM or NAND flash, is known as a UFS-based MCP. It is primarily utilized in smartphones for storage purposes.

Asia-Pacific Region to Witness Highest Growth

? Asia-Pacific has witnessed remarkable growth across various automotive and consumer electronics sectors. As these are the major end-user industries for linear regulator power management ICs, their demand has been increasing across the region.

? With the various regional governments of the Asia Pacific region increasing their investments in these sectors, the studied market is expected to grow. For instance, according to IBEF, India's appliances and consumer electronics industry is expected to more than double to reach INR 1.48 lakh crore by 2025. Furthermore, the electronic goods sector in India has attracted FDI inflows of USD 3.19 billion between April 2000-December 2021.

? China, the largest manufacturer of motor vehicles, is further increasing its investment in the automotive sector to strengthen its position as the market leader. For instance, in December 2021, the Chinese government removed several limits on foreign investment to boost automotive manufacturing in the country.

? The growing emphasis on the semiconductor industry by the government of China is leading to the increase in demand for liner regulator power management ICs. The country's aggressive growth strategy will meet 70% of China's semiconductor demand with domestic production by 2025. In addition, the 14th Five Year Plan (2021-2025) for technology independence also supports the goal set by the government.

Linear Regulator Power Management IC Market Competitor Analysis

The Linear Regulators Power Management IC Market is competitive, with many regional and global players. Key players include Texas Instruments, On Semiconductors, NXP Semiconductors, ABLIC Inc., and Renesas Electronics Corporation.

? April 2022 - Renesas launched low-cost linear regulators to generate a low voltage bias supply from intermediate distributed voltages commonly used in telecom and datacom applications. These devices will be used as start-ups or continuous low power regulators.

? March 2022 - ROHM Semiconductor announced a new power supply technology, QuiCur, that improves the load transient response characteristics involving response speed and voltage stability of subsequent stages of LDOs (linear regulators).

Additional Benefits:

The market estimate (ME) sheet in Excel format
3 months of analyst support

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