

Power Management Integrated Circuits Market by Product Type (Voltage Regulators, Motor Control IC, Integrated ASSP Power Management IC, Battery Management IC, and Other Power Management IC) and End Use (Automotive & Transportation, Consumer Electronics, Industrial, Telecom & Networking, and Others): Global Opportunity Analysis and Industry Forecast, 2020-2027

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Abstracts

The power management integrated circuits are used to manage power of an electronic device or in modules on devices that have a range of voltages. PMICs are highly efficient and are generally used for voltage conversion. It is highly compact, smaller in size, and suitable for hard to reach places in an electronic device. PMICs are primarily termed as solid-state drives, playing a vital role for controlling the direction and flow of electric power to perform basic electrical functions such as voltage conversion, power source selection, voltage scaling, and power sequencing.

Rise in technological advancements and increase in demand for battery-operated devices are the major drivers for the PMIC market globally. Moreover, growth of the PMIC market is directly related to the growth in consumer electronics (primarily smart phones) and automobile sectors. In addition, increased adoption of data centers, growth in light emitting diode market, energy harvesting solutions, renewable energy market & smart grids, and extensive use of PMICs in hybrid electric vehicles are some of the key drivers of the PMIC market. However, a complex integration process for multi-power domain system on a chip (SOC) of PMICs is a major factor that hinders the market growth.

The report provides a valuable and in-depth overview of the ecosystem of this market, which includes product manufacturers & suppliers, original equipment manufacturers (OEMs), assembly, testing, and packaging players, fabless players, and chipset manufacturers. The research study provides a pathway to stakeholders to decide primarily, which market segments to focus on the next two to five years. PMIC manufacturers need to focus on enabling processes to reduce the size and increase the performance for multifunctional power management ICs, by selecting an appropriate line of action, prioritizing, and aligning their efforts & investments.

The PMIC market is segmented on the basis of product type, end use, and region. By product type, the market is segmented into voltage regulators, motor control ICs, integrated ASSP power management ICs, battery management ICs, and others. By end use, it is segmented into automotive and transportation, consumer electronics, industrial, telecom & networking, and others.

By region, the global power management integrated circuits market is divided into North America, Europe, Asia-Pacific, and LAMEA. North America is further segmented into the U.S., Mexico, and Canada. Europe is further segmented into the UK, Germany, Italy, France, and rest of Europe. The countries covered under Asia-Pacific include China, India, Japan, South Korea, and rest of Asia-Pacific. LAMEA includes Latin America, The Middle East, and Africa.

COMPETITION ANALYSIS

The key players operating in the market include Texas Instruments Inc., ON Semiconductor Corp., Analog Devices Inc., Dialog Semiconductor PLC, Maxim Integrated Products Inc., NXP Semiconductors, Infineon Technologies AG, Mitsubishi Group, Renesas Electronics Corporation, and STMicroelectronics N.V.

KEY MARKET SEGMENTS

BY PRODUCT TYPE

Voltage Regulators

Linear Voltage Regulators

DC/DC Regulators

Motor Control IC

Integrated ASSP Power Management IC

Battery Management IC

Other Power Management IC

BY END USE

Automotive & Transportation

Consumer Electronics

Industrial

Telecom & Networking

Others

BY REGION

North America

U.S.

Canada

Mexico

Europe

UK

Germany

France

Italy

Rest of Europe

Asia-Pacific

China

India

Japan

South Korea

Rest of Asia-Pacific

LAMEA

Latin America

Middle East

Africa

KEY PLAYERS

Texas Instruments Inc.

ON Semiconductor Corp.

Analog Devices Inc.

Dialog Semiconductor PLC

Maxim Integrated Products Inc.

NXP Semiconductors

Infineon Technologies AG

Mitsubishi Group

Renesas Electronics Corporation

STMicroelectronics

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