

Intelligent Power Module (IPM) - Global Market Outlook (2017-2023)

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Abstracts

According to Statistics MRC, the Global Intelligent Power Module (IPM) Market accounted for \$1.44 billion in 2016 and is expected to reach \$2.81 billion by 2023 growing at a CAGR of 9.9% during the forecast period. Due to growing environmental concerns, electric vehicles are gaining pace, which uses IPMs extensively.

Technological advancements in IPM models with improved features assist in strong competition among market players, which in turn provides the stage for R&D opportunities. The growing interest towards renewable power resources like solar and wind energy, which widely use IPMs in their power generation units are also fueling the market. However, technical issues due to power modules with SiC-bases may hinder the market growth.

IPMs offer design engineers an integrated compact solution to solve their challenges coupled with energy efficiency, particularly in consumer electronics segment. Hence, IPMs are observed to have more penetration in the segment. The growth of the renewable energy segment and electric vehicle market is also anticipated to promote the growth of IPM market. Moreover, the market is anticipated to experience an increased used of SiC-based IPMs with increased current ratings and switching frequencies along with a move towards digital monitoring and control of the devices.

By geography, Asia Pacific commanded largest market share and will continue its dominance during the forecast period owing growing demand for power and infrastructure and the growth of the economy. Another major factor that drives the market's growth is increasing urbanization in countries such as China and India.

Some of the key players in the market include Fairchild Semiconductor International, Inc.,

Fuji Electric Co., Ltd., Future Electronics Inc., Infineon Technologies AG, Mitsubishi Electric Corp., ON Semiconductor Corporation, Powerex Inc., ROHM Co., Ltd., Sanken Electric Co., Ltd., Semikron, Stmicroelectronics N.V. and Vincotech GmbH.

Power Devices Covered:

Mosfet

IGBT (Insulated-gate bipolar transistor)

Current Ratings Covered:

Above 600 A

101–600 A

Up to 100 A

Voltage Ratings Covered:

Above 1,200 V

1,200 V

Up to 600 V

Verticals Covered:

Industrial

Renewable Energy

Servo Drives

Transportation

UPS

Other Industrial Verticals

Consumer

Refrigerators

Air Conditioners

Washing Machines

Other Consumer Verticals

Circuit Configurations Covered:

7-Pac

6-Pac

3 Phase Bridge

Dual

Other Configurations (H-Bridge, H-Bridge + 1 Chopper, H-Bridge + 2 Choppers)

Regions Covered:

North America

US

Canada

Mexico

Europe

Germany

UK

Italy

France

Spain

Rest of Europe

Asia Pacific

Japan

China

India

Australia

New Zealand

South Korea

Rest of Asia Pacific

South America

Argentina

Brazil

Chile

Rest of South America

Middle East & Africa

Saudi Arabia

UAE

Qatar

South Africa

Rest of Middle East & Africa

What our report offers:

Market share assessments for the regional and country level segments

Market share analysis of the top industry players

Strategic recommendations for the new entrants

Market forecasts for a minimum of 7 years of all the mentioned segments, sub segments and the regional markets

Market Trends (Drivers, Constraints, Opportunities, Threats, Challenges, Investment Opportunities, and recommendations)

Strategic recommendations in key business segments based on the market estimations

Competitive landscaping mapping the key common trends

Company profiling with detailed strategies, financials, and recent developments

Supply chain trends mapping the latest technological advancements

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