

Silicon EPI Wafer Market by Type (Heteroepitaxy and Homoepitaxy), Wafer Size (6-inch, 8-inch, 12-inch, and Others) Application (LED, Power Semiconductor, MEMS- Based Devices), and Industry Vertical (Consumer Electronics, Automotive, Healthcare, Industrial, and Others): Global Opportunity Analysis and Industry Forecast, 2019–2026

<https://marketpublishers.com/r/S91A50764E4EEN.html>

Date: November 2019

Pages: 302

Price: US\$ 4,296.00 (Single User License)

ID: S91A50764E4EEN

Abstracts

Silicon EPI wafer is mainly used in processing semiconductor wafers made from materials such as silicon or epitaxial growth. Its powerful adhesive strength keeps wafers in place when grinding and cutting. The way for growing the epitaxial layer on monocrystalline silicon or other wafers includes various types of chemical vapor deposition (CVD) categorized as atmospheric pressure CVD (APCVD) or metal organic chemical vapor deposition (MOCVD).

The silicon EPI wafer market is steadily gaining traction, owing to growth in the semiconductor industry, increase in need for wafers in consumer electronics. In addition, increase in IoT in semiconductors especially in countries such as South Korea, China, and Japan is expected to offer lucrative opportunities for the silicon EPI wafer market globally. The silicon EPI wafer market provides numerous growth opportunities to the market players such as Siltronic, Nichia Corporation, Applied Materials, Wafer World Inc., Global Wafer, and others.

The factors such as increase in demand for epitaxial wafer in consumer electronics, rise in usage of GPS, emerging trends of wafer in automotive industry, and growth in the semiconductor industry boost the growth of the silicon EPI wafer market globally. However, increase in shift from homoepitaxy to heteroepitaxy deposition type that

increase the overall cost of wafer manufacturing is expected to hamper the market growth.

Furthermore, increase in popularity of IoT in wafers, and growing of smart lighting especially in Korea and China, is expected to offer lucrative opportunities for market expansion.

The global Silicon EPI wafer market is segmented on the basis of type, wafer size, application, industry vertical, and region. By type, the market is bifurcated into Heteroepitaxy and Homoepitaxy. By wafer size, the market is divided into 6-inch, 8-inch, 12-inch, and others. By application, the market is studied across LED, power semiconductor, and MEMS-based devices. By industry vertical, the market is categorized into consumer electronics, automotive, healthcare, industrial, and others. Furthermore, others is sub-segmented into telecommunication and lighting. By region, it is analyzed across North America, Europe, Asia-Pacific, and LAMEA along with their prominent countries.

The key players profiled in the report includes Nichia Corporation, Applied Materials, Sumco Corporation, Epigan, ASM, Global Wafers, Siltronic, Wafer World Inc., Tokyo Electron and Shin Etsu Chemical Co. Ltd. These key players have adopted strategies, such as product portfolio expansion, mergers & acquisitions, agreements, geographical expansion, and collaborations to enhance their market penetration.

KEY BENEFITS FOR STAKEHOLDERS

This study includes the analytical depiction of the global silicon EPI wafer market along with the current trends and future estimations to determine the imminent investment pockets.

The report presents information regarding the key drivers, restraints, and opportunities.

The current market is quantitatively analyzed from 2019 to 2026 to highlight the financial competency of the industry.

Porter's five forces analysis illustrates the potency of the buyers and suppliers in the industry.

Global Silicon EPI wafer Market Segmentation

By Type

Heteroepitaxy

Homoepitaxy

By Wafer Size

6-inch

8-inch

12-inch

Others

By Application

LED

Power Semiconductor

MEMS-based Devices

By Industry Vertical

Consumer electronics

Automotive

Healthcare

Industrial

Others

By Region

North America

U.S.

Canada

Mexico

Europe

UK

Germany

France

Russia

Rest of Europe

Asia-Pacific

China

Japan

India

South Korea

Rest of Asia-Pacific

LAMEA

Latin America

Middle East

Africa

KEY MARKET PLAYERS

Nichia Corporation

Applied Materials

Sumco Corporation

Epigan

ASM

Global Wafers

Siltronic

Wafer World Inc.,

Tokyo Electron

Shin Etsu Chemical Co. Ltd.

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