

Silicon on Insulator (SOI) Market Share, Price, Trends, Growth, Analysis, Key Players, Report, Forecast 2024-2032

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/EINPresswire.com/ -- Silicon on
Insulator (SOI) Market Outlook

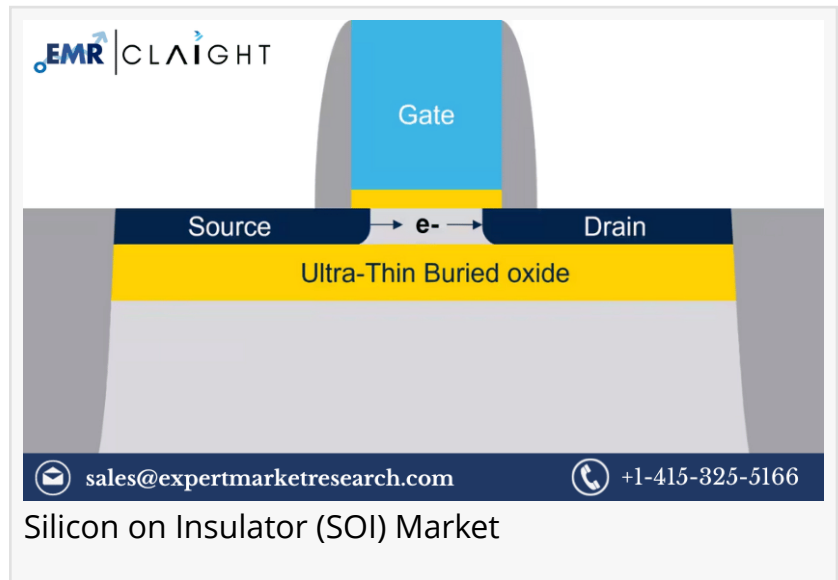
According to a new report by Expert Market Research titled, "Global [Silicon on Insulator \(SOI\) Market Size](#), Share, Analysis, Report and Forecast 2024-2032", the global silicon on insulator

(SOI) market size reached around USD 1.81 billion in 2023. Aided by rising investments by the leading automotive manufacturers in the development of driverless automobile technologies and rising demand for consumer electronics, the market is projected to further grow at a CAGR of 14.10% between 2024 and 2032 to reach a value of USD 4 billion by 2032.

Silicon on Insulator (SOI) is a sophisticated substrate technology, embodying a layered silicon-insulator-silicon substrate, crafted to bolster the performance of microelectronic devices by reducing parasitic device capacitance. This pivotal innovation has ushered in a new era of reduced power consumption, augmented speed, and miniaturised silicon footprints, which are cardinal in today's microelectronics landscape.

The silicon on insulator (SOI) market growth is being supported by the rising demand for energy-efficient devices. This generation, marked by digitisation, has witnessed an exponential upsurge in the number of electronic devices, from smart appliances to intricate server systems. This has increased the need for compact, efficient, and faster microelectronic component, thereby fuelling the demand for silicon on insulator technology.

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One of the major silicon on insulator (SOI) market trends is the adoption of FD-SOI (Fully Depleted Silicon on Insulator) technology. This technology, with its ultra-low power consumption and high performance, is increasingly being used in various applications, from Internet of Things (IoT) devices to automotive electronics.

Growing shift of the consumers towards 300mm SOI wafers is yet another significant factor bolstering the silicon on insulator (SOI) market demand. These wafers, with their enhanced surface area, offer increased operational efficiency and are progressively finding applications in advanced devices, further fuelling the market dynamics.

The SOI market is witnessing a robust upward trajectory. As technology continues to grow, and the world gravitates towards smarter, faster, and more efficient devices, silicon on insulator (SOI) technology will continue to observe a growing demand from its global consumers.

Based on the silicon on insulator (SOI) market analysis, the Asia Pacific region accounted for a large share of the market primarily due to its growing electronics manufacturing industry. Nations like China, South Korea, and Taiwan, with their vast semiconductor foundries and electronic manufacturing sectors are contributing to the global SOI market expansion.

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Silicon on Insulator (SOI) Market Segmentation

The market can be divided based on wafer size, wafer type, technology, product, application, and region.

Market Breakup by Wafer Size

200 mm
300 mm

Market Breakup by Wafer Type

RF-SOI
FD-SOI
PD-SOI
Others

Market Breakup by Technology

BESOI
SiMOX
Smart Cut
ELTRAN
SoS

Market Breakup by Product

RF FEM
MEMS
Power
Optical Communication
Image Sensing

Market Breakup by Application

Consumer Electronics
Automotive
Datacom and Telecom
Industrial
Photonics
Others

Market Breakup by Region

North America
Europe
Asia Pacific
Latin America
Middle East and Africa

Competitive Landscape

The EMR report looks into the market shares, plant turnarounds, capacities, investments, and mergers and acquisitions, among other major developments, of the leading companies operating in the global silicon on insulator (SOI) market. Some of the major players explored in the report by Expert Market Research are as follows:

Tower Semiconductor Ltd.
Globalwafers Co., Ltd.
MagnaChip Semiconductor Corporation
NXP Semiconductors N.V.
Shanghai Simgui Technology Co.,Ltd.

Soitec
Others

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