



Silicon-on-Insulator Market Share, Analysis, Trend, Size, Growth and Forecast to 2027 | Impact of COVID-19 – January 25, 2022

Market Highlights

The global Silicon-on-Insulator Industry is expected to register a CAGR of 15.5% during the forecast period of 2020–2026.

Regional Analysis

The global [Silicon-on-Insulator Industry](#) is estimated to grow at a significant rate in the future. The geographical analysis of the Silicon on Insulator (SOI) market has been conducted for North America, Europe, Asia-Pacific, and the rest of the world. SOI wafers were introduced in 1978 and were characterized by their high speeds, error reduction capacity, low power usage, improved scaling, and their immunity to latch-up. Originally, SOI processes were used in small niche markets, but these applications have broadened to the mainstream markets over the years. The applications of SOI wafers can be widely seen in microprocessors, servers, RF signal processors as well as test research.

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As per MRFR analysis, Asia-Pacific accounted for the largest share in 2019 for the global silicon on insulator (SOI) market. China accounts for the largest market share in the region for the silicon on insulator (SOI) market due to increasing investments by the private and government sectors for the development of new and advanced technologies for silicon fabrication. The region has also witnessed a large presence of consumer electronics manufacturers. Additionally, the presence of various companies in the region is also driving the growth of the market in the region.

Europe accounts for the second-largest market share in the silicon on insulator (SOI) market. Germany holds the largest share for the Silicon on Insulator (SOI) market in 2019 due to the presence of the automobile industry in the country and the increasing adoption of IoT devices by consumers. On the other hand, France is expected to be the fastest-growing country in the region during the forecast period.

North America is expected to be the fastest-growing regional market during the forecast period. Technological advancements and increasing investments by the manufacturing industries for enhancing their product quality are some of the factors resulting in the market growth in this region. Similarly, the growing number of semiconductor manufacturing facilities in the region is also fueling the growth of the market.

Global Silicon-on-insulator (SOI) Market

Global Silicon-on-Insulator (SOI) Market is estimated to reach USD 2,403.9 Million by 2026, registering a CAGR of 15.5% during the forecast period of 2020–2026.

BY TYPE

- Fully Depleted Silicon on Insulator FD-SOI
- Partially Depleted Silicon on Insulator PD-SOI
- Power-SOI Others

BY WAFER SIZE

- Less than or equal to 200mm
- 201mm and above

BY TECHNOLOGY

- Bonding SOI
- Layer Transfer SOI
- Smart Cut

BY APPLICATION

- MEMS
- Power Supplies
- Optical
- Communication
- Image Sensing
- Others

Key Segments

The global Silicon-on-Insulator Industry has been segmented based on type, wafer size, technology, application, vertical, and region.

By type, the market has been segmented into fully depleted silicon on insulator (FD-SOI), partially depleted silicon on insulator (PD-SOI), power-SOI, and others.

By wafer size, the market has been bifurcated into less than or equal to 200mm and 201mm and above.

By technology, the market has been segmented into bonding SOI, layer transfer SOI, and Smart Cut.

By application, the market has been segmented into MEMS, power supplies, optical communication, image sensing, and others.

By vertical, the market has been segmented into consumer electronics, automotive, IT & telecommunication, aerospace & defense, industrial, and others.

By region, the market has been segmented into North America, Europe, Asia-Pacific, and the rest of the world.

Key players

MRFR recognizes the key players in the global silicon on insulator (SOI) market. These include EV Group (Austria), Evaderis (France), GlobalFoundries (US), GlobalWafers (Taiwan), Ineda Systems (India), MagnaChip Semiconductor (South Korea), Murata Manufacturing (Japan), NXP Semiconductors NV (The Netherlands), Qorvo (US), Qualcomm Technologies Inc. (US), Simgui (China), SOItec (France), STMicroelectronics NV (Switzerland), SUMCO (Japan), Shin-Etsu Chemical (Japan), Silicon Valley Microelectronics Inc. (US), Simgui (China), Skyworks Solutions (US), Sony Corporation (Japan), Taiwan Semiconductor Manufacturing Company (Taiwan), TowerJazz (Israel), Ultrasil LLC (US), United

Microelectronics Corporation (Taiwan), and WaferPro (US) among others. The prominent players keep innovating and investing in research and development to offer a cost-effective product portfolio. There have been recent mergers and acquisitions among the key players, a strategy of business entities for strengthening their reach to the customers.

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MRFR team have supreme objective to provide the optimum quality market research and intelligence services to our clients. Our market research studies by Components, Application, Logistics and market players for global, regional, and country level market segments, enable our clients to see more, know more, and do more, which help to answer all their most important questions.

In order to stay updated with technology and work process of the industry, MRFR often plans & conducts meet with the industry experts and industrial visits for its research analyst members.

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