

Semiconductor Foundry Market: Global Industry Trends, Share, Size, Growth, Opportunity and Forecast 2023-2028

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Abstracts

The global semiconductor foundry market size reached US\$ 77.8 Billion in 2022. Looking forward, IMARC Group expects the market to reach US\$ 112.9 Billion by 2028, exhibiting a growth rate (CAGR) of 6.2% during 2023-2028.

A semiconductor foundry, also known as a fab and fabrication plant, refers to a factory wherein devices like integrated circuits (ICs) are manufactured using photolithography. The process involves photographing the circuit pattern on a photosensitive substrate and chemically etching the background. ICs are produced in different technological nodes like 7nm, 10nm, 20nm, etc., which cater to multiple applications. Semiconductor foundries comprise a clean room with a regulated environment for eliminating dust and vibrations, as well as keeping the humidity and temperature within a controlled range. First developed in the late 1980s, they generally include integrated device manufacturers (IDMs) that focus mainly on manufacturing.

The growing demand for ICs for use in automobiles, consumer electronics, medical devices, military equipment and smart home appliances is one of the major factors driving the market growth. Also, the rising penetration for the Internet of Things (IoT)-enabled devices across the globe is positively influencing the demand for ICs. IoT devices make decisions by processing information and help users in connecting various devices to the internet. As a result, they are employed in multiple industries, including retail, medical, automotive and electronics. Furthermore, support from governments of numerous countries for the development of semiconductor technology is spurring the growth of the market. For instance, the New York Center for Research, Economic Advancement, Technology, Engineering, and Science (NY CREATES) and Cree, Inc., a leader in silicon carbide (SiC) technology, announced their partnership on September

23, 2019 for developing the world's first 200mm SiC wafer fabrication facility in Marcy, near Utica. The company will invest US\$ 1 Billion in this project, with a US\$ 500 million grant from Empire State Development, the umbrella organization for New York state's economic development.

Key Market Segmentation:

IMARC Group provides an analysis of the key trends in each sub-segment of the global semiconductor foundry market report, along with forecasts at the global, regional and country level from 2023-2028. Our report has categorized the market based on technology node, foundry type and application.

Breakup by Technology Node:

- 10/7/5nm
- 16/14nm
- 20nm
- 45/40nm
- Others

Breakup by Foundry Type:

- Pure Play Foundry
- IDMs

Breakup by Application:

- Communication
- Consumer Electronics
- Computer
- Automotive
- Others

Breakup by Region:

- North America
 - United States
 - Canada
- Asia Pacific
- China

Japan
India
South Korea
Australia
Indonesia
Others
Europe
Germany
France
United Kingdom
Italy
Spain
Russia
Others
Latin America
Brazil
Mexico
Others
Middle East and Africa

Competitive Landscape:

The competitive landscape of the industry has also been examined with some of the key players being TSMC, DB HiTek, Fujitsu Semiconductor, GlobalFoundries, Magnachip, Powerchip, Samsung Group, Semiconductor Manufacturing International Corporation, STMicroelectronics, Tower Semiconductor Ltd., United Microelectronics Corporation, X-Fab, etc.

Key Questions Answered in This Report

1. What was the size of the global semiconductor foundry market in 2022?
2. What is the expected growth rate of the global semiconductor foundry market during 2023-2028?
3. What are the key factors driving the global semiconductor foundry market?
4. What has been the impact of COVID-19 on the global semiconductor foundry market?
5. What is the breakup of the global semiconductor foundry market based on the technology node?
6. What is the breakup of the global semiconductor foundry market based on the foundry type?
7. What is the breakup of the global semiconductor foundry market based on the

application?

8. What are the key regions in the global semiconductor foundry market?

9. Who are the key players/companies in the global semiconductor foundry market?

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