

Global Semiconductor Design, Fabrication and OSAT Market Growth (Status and Outlook) 2024-2030

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Abstracts

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Semiconductor device fabrication is the process used to manufacture semiconductor devices, typically integrated circuits (ICs) such as computer processors, microcontrollers, and memory chips (such as NAND flash and DRAM).

This report studies the semiconductor design, fabrication and Assembly, Test, and Packaging (OSAT), key semiconductor manufacturers include fabless, IDM, Foundries and OSAT companies.

Typical foundries players are TSMC, GlobalFoundries, SMIC, UMC, PSMC, VIS (Vanguard International Semiconductor) and Tower Semiconductor, etc.

Typical IDMs are Intel, Samsung Electronics, SK Hynix, Infineon, STMicroelectronics, Texas Instruments, Micron Technology, NXP, ADI (Analog Devices, Inc), Renesas Electronics Corporation, Microchip Technology, Onsemi, Mitsubishi Electric, Bosch and Rohm, etc.

Typical Assembly, Test, and Packaging (OSAT) companies include ASE (SPIL), Amkor, JCET (STATS ChipPAC), Tongfu Microelectronics (TFME), and Powertech Technology Inc. (PTI), etc.

The global Semiconductor Design, Fabrication and OSAT market size is projected to grow from US\$ 732440 million in 2024 to US\$ 989140 million in 2030; it is expected to grow at a CAGR of 5.1% from 2024 to 2030.

LPI (LP Information)' newest research report, the “Semiconductor Design, Fabrication and OSAT Industry Forecast” looks at past sales and reviews total world Semiconductor Design, Fabrication and OSAT sales in 2022, providing a comprehensive analysis by region and market sector of projected Semiconductor Design, Fabrication and OSAT sales for 2023 through 2029. With Semiconductor Design, Fabrication and OSAT sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US\$ millions of the world Semiconductor Design, Fabrication and OSAT industry.

This Insight Report provides a comprehensive analysis of the global Semiconductor Design, Fabrication and OSAT landscape and highlights key trends related to product segmentation, company formation, revenue, and market share, latest development, and M&A activity. This report also analyses the strategies of leading global companies with a focus on Semiconductor Design, Fabrication and OSAT portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global Semiconductor Design, Fabrication and OSAT market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Semiconductor Design, Fabrication and OSAT and breaks down the forecast by Type, by Business Model, geography, and market size to highlight emerging pockets of opportunity. With a transparent methodology based on hundreds of bottom-up qualitative and quantitative market inputs, this study forecast offers a highly nuanced view of the current state and future trajectory in the global Semiconductor Design, Fabrication and OSAT.

United States market for Semiconductor Design, Fabrication and OSAT is estimated to increase from US\$ million in 2023 to US\$ million by 2030, at a CAGR of % from 2024 through 2030.

China market for Semiconductor Design, Fabrication and OSAT is estimated to increase from US\$ million in 2023 to US\$ million by 2030, at a CAGR of % from 2024 through 2030.

Europe market for Semiconductor Design, Fabrication and OSAT is estimated to increase from US\$ million in 2023 to US\$ million by 2030, at a CAGR of % from 2024 through 2030.

Global key Semiconductor Design, Fabrication and OSAT players cover Samsung, Intel,

SK Hynix, Micron Technology, Texas Instruments (TI), etc. In terms of revenue, the global two largest companies occupied for a share nearly % in 2023.

This report presents a comprehensive overview, market shares, and growth opportunities of Semiconductor Design, Fabrication and OSAT market by product type, application, key players and key regions and countries.

Segmentation by Type:

Analog IC

Micro IC (MCU and MPU)

Logic IC

Memory IC

Optoelectronics, Discretres, and Sensors

Segmentation by Business Model:

IDM

Foundry

OSAT

This report also splits the market by region:

Americas

United States

Canada

Mexico

Brazil

APAC

China

Japan

Korea

Southeast Asia

India

Australia

Europe

Germany

France

UK

Italy

Russia

Middle East & Africa

Egypt

South Africa

Israel

Turkey

GCC Countries

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India

Australia

Europe

Germany

France

UK

Italy

Russia

Middle East & Africa

Egypt

South Africa

Israel

Turkey

GCC Countries

The below companies that are profiled have been selected based on inputs gathered from primary experts and analyzing the company's coverage, product portfolio, its market penetration.

Samsung

Intel

SK Hynix

Micron Technology

Texas Instruments (TI)

STMicroelectronics

Kioxia

Western Digital

Infineon

NXP

Analog Devices, Inc. (ADI)

Renesas

Microchip Technology

Onsemi

Sony Semiconductor Solutions Corporation

Panasonic

Winbond

Nanya Technology

ISSI (Integrated Silicon Solution Inc.)

Macronix

TSMC

GlobalFoundries

United Microelectronics Corporation (UMC)

SMIC

Tower Semiconductor

PSMC

VIS (Vanguard International Semiconductor)

Hua Hong Semiconductor

HLMC

X-FAB

DB HiTek

Nexchip

Giantec Semiconductor

Sharp

Magnachip

Toshiba

JS Foundry KK.

Hitachi

Murata

Skyworks Solutions Inc

Wolfspeed

Littelfuse

Diodes Incorporated

Rohm

Fuji Electric

Vishay Intertechnology

Mitsubishi Electric

Nexperia

Ampleon

CR Micro

Hangzhou Silan Integrated Circuit

Jilin Sino-Microelectronics

Jiangsu Jiejie Microelectronics

Suzhou Good-Ark Electronics

Zhuzhou CRRC Times Electric

BYD

ASE (SPIL)

Amkor

JCET (STATS ChipPAC)

Tongfu Microelectronics (TFME)

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