

Global Semiconductor Design Market 2025 by Company, Regions, Type and Application, Forecast to 2031

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Abstracts

According to our (Global Info Research) latest study, the global Semiconductor Design market size was valued at US\$ 628930 million in 2024 and is forecast to a readjusted size of USD 886770 million by 2031 with a CAGR of 5.1% during review period.

Semiconductor design refers to the design process of integrated circuits (ICs) manufactured using semiconductor materials such as silicon and gallium arsenide. IC design usually includes multiple stages such as circuit design, chip layout design, and verification, and is a very important technology in modern electronic technology. The EDA tools and manufacturing processes used in IC design are equally important, as they complement IC design technology to automate the entire process from circuit design to chip manufacturing. IC design products are not only applied in fields such as electronics, communication, and computers, but also serve as the core of modern consumer electronics products such as smartphones, tablets, and wearable devices.

WSTS has adjusted its Spring 2024 forecast upwards, projecting a 16.0 percent growth in the global semiconductor market compared to the previous year. The updated market valuation for 2024 is estimated at US\$611 billion. This revision reflects stronger performance in the last two quarters, particularly in computing end-markets.

For 2024, mainly two Integrated Circuit categories are anticipated to drive the growth for the year with double digit increase, Logic with 10.7 percent and Memory with 76.8 percent. Conversely, other categories such as Discrete, Optoelectronics, Sensors, and Analog Semiconductors are expected to experience single-digit declines.

The Americas and Asia Pacific regions are projected to see significant growth, with

increases of 25.1 percent and 17.5 percent, respectively. In contrast, Europe is expected to show marginal growth of 0.5 percent, while Japan is forecasted to see a slight decline of 1.1 percent.

Looking ahead to 2025, WSTS forecasts a 12.5 percent growth in the global semiconductor market, reaching an estimated valuation of US\$687 billion. This growth is expected to be driven primarily by the Memory and Logic sectors, which are on track to soar to over US\$200 billion in 2025 each, representing an upward trend of over 25 percent for Memory and over 10 percent for Logic from the previous year. All other segments are anticipated to record single-digit growth rates.

In 2025, all regions are poised for continued expansion. The Americas and Asia Pacific are expected to maintain their double-digit growth on a year-over-year basis.

This report is a detailed and comprehensive analysis for global Semiconductor Design market. Both quantitative and qualitative analyses are presented by company, by region & country, by Type and by Application. As the market is constantly changing, this report explores the competition, supply and demand trends, as well as key factors that contribute to its changing demands across many markets. Company profiles and product examples of selected competitors, along with market share estimates of some of the selected leaders for the year 2025, are provided.

Key Features:

Global Semiconductor Design market size and forecasts, in consumption value (\$ Million), 2020-2031

Global Semiconductor Design market size and forecasts by region and country, in consumption value (\$ Million), 2020-2031

Global Semiconductor Design market size and forecasts, by Type and by Application, in consumption value (\$ Million), 2020-2031

Global Semiconductor Design market shares of main players, in revenue (\$ Million), 2020-2025

The Primary Objectives in This Report Are:

To determine the size of the total market opportunity of global and key countries

To assess the growth potential for Semiconductor Design
To forecast future growth in each product and end-use market
To forecast future factors affecting the marketplace

This report profiles key players in the global Semiconductor Design market based on the following parameters - company overview, revenue, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include NVIDIA, Qualcomm, Broadcom, Advanced Micro Devices, Inc. (AMD), MediaTek, Samsung, Intel, SK Hynix, Micron Technology, Texas Instruments (TI), etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

Market segmentation

Semiconductor Design market is split by Type and by Application. For the period 2020-2031, the growth among segments provides accurate calculations and forecasts for Consumption Value by Type and by Application. This analysis can help you expand your business by targeting qualified niche markets.

Market segment by Type

Analog ICs

Logic ICs

Microcontroller and Microprocessor ICs

Memory ICs

Discrete Semiconductors

Optoelectronics

Sensors

Market segment by Application

Mobile Devices

PCs

Automotive

Industrial & Medical

Servers & Data Center & AI

Network Infrastructure

Appliances/Consumer Goods

Others

Market segment by players, this report covers

NVIDIA

Qualcomm

Broadcom

Advanced Micro Devices, Inc. (AMD)

MediaTek

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

Marvell Technology Group

Novatek Microelectronics Corp.

Tsinghua Unigroup

Realtek Semiconductor Corporation

OmniVision Technology, Inc

Monolithic Power Systems, Inc. (MPS)

Cirrus Logic, Inc.

Socionext Inc.

LX Semicon

HiSilicon Technologies

Synaptics

Allegro MicroSystems

Himax Technologies

Semtech

Global Unichip Corporation (GUC)

Hygon Information Technology

GigaDevice

Silicon Motion

Ingenic Semiconductor

Raydium

Goodix Limited

Sitronix

Nordic Semiconductor

Silergy

Shanghai Fudan Microelectronics Group

Alchip Technologies

FocalTech

MegaChips Corporation

Elite Semiconductor Microelectronics Technology

SGMICRO

Market segment by regions, regional analysis covers

North America (United States, Canada and Mexico)

Europe (Germany, France, UK, Russia, Italy and Rest of Europe)

Asia-Pacific (China, Japan, South Korea, India, Southeast Asia and Rest of Asia-Pacific)

South America (Brazil, Rest of South America)

Middle East & Africa (Turkey, Saudi Arabia, UAE, Rest of Middle East & Africa)

The content of the study subjects, includes a total of 13 chapters:

Chapter 1, to describe Semiconductor Design product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top players of Semiconductor Design, with revenue, gross margin, and global market share of Semiconductor Design from 2020 to 2025.

Chapter 3, the Semiconductor Design competitive situation, revenue, and global market share of top players are analyzed emphatically by landscape contrast.

Chapter 4 and 5, to segment the market size by Type and by Application, with consumption value and growth rate by Type, by Application, from 2020 to 2031

Chapter 6, 7, 8, 9, and 10, to break the market size data at the country level, with revenue and market share for key countries in the world, from 2020 to 2025. and Semiconductor Design market forecast, by regions, by Type and by Application, with consumption value, from 2026 to 2031.

Chapter 11, market dynamics, drivers, restraints, trends, Porters Five Forces analysis.

Chapter 12, the key raw materials and key suppliers, and industry chain of Semiconductor Design.

Chapter 13, to describe Semiconductor Design research findings and conclusion.

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