Global Semiconductor IC Design, Manufacturing, Packaging and Testing Market Growth (Status and Outlook) 2026-2032

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Abstracts

The global Semiconductor IC Design, Manufacturing, Packaging and Testing market size is predicted to grow from US$ 857010 million in 2025 to US$ 1244620 million in 2032; it is expected to grow at a CAGR of 5.6% from 2026 to 2032.

The semiconductor supply chain involves a complex network of companies, organizations, and individuals involved in the design, manufacturing, Semiconductor Test and Packaging, Semiconductor Equipment and Materials.

This report studies the semiconductor IC Design (IDM and fabless), IC Manufacturing (foundries and IDM), IC Packaging and IC Testing (OSAT and IDM).

Key IC design companies include NVIDIA, Qualcomm, Broadcom, Advanced Micro Devices, Inc. (AMD), MediaTek, Marvell Technology Group, Novatek Microelectronics Corp., Tsinghua Unigroup, Realtek Semiconductor Corporation and OmniVision Technology, Inc.

Key IC manufacturing/wafer fabrication companies are TSMC, Samsung Foundry, GlobalFoundries, United Microelectronics Corporation (UMC), SMIC, Tower Semiconductor, PSMC, VIS (Vanguard International Semiconductor), and Hua Hong Semiconductor, etc.

Key IDMs include Samsung, Intel, SK Hynix, Micron Technology, Texas Instruments (TI), STMicroelectronics, Kioxia, Sony Semiconductor Solutions Corporation (SSS), Infineon, NXP, Analog Devices, Inc. (ADI), Renesas Electronics, Microchip Technology and Onsemi, etc.

Key Assembly, Test, and Packaging (OSAT) companies include ASE (SPIL), Amkor, JCET (STATS ChipPAC), Tongfu Microelectronics (TFME), Powertech Technology Inc. (PTI), HT-tech, King Yuan Electronics Corp. (KYEC), ChipMOS TECHNOLOGIES and Chipbond Technology, etc.

United States market for Semiconductor IC Design, Manufacturing, Packaging and Testing is estimated to increase from US$ million in 2025 to US$ million by 2032, at a CAGR of % from 2026 through 2032.

China market for Semiconductor IC Design, Manufacturing, Packaging and Testing is estimated to increase from US$ million in 2025 to US$ million by 2032, at a CAGR of % from 2026 through 2032.

Europe market for Semiconductor IC Design, Manufacturing, Packaging and Testing is estimated to increase from US$ million in 2025 to US$ million by 2032, at a CAGR of % from 2026 through 2032.

Global key Semiconductor IC Design, Manufacturing, Packaging and Testing players cover Samsung-Memory, Intel, SK Hynix, Micron Technology, Texas Instruments (TI), etc. In terms of revenue, the global two largest companies occupied for a share nearly % in 2025.

LPI (LP Information)' newest research report, the “Semiconductor IC Design, Manufacturing, Packaging and Testing Industry Forecast” looks at past sales and reviews total world Semiconductor IC Design, Manufacturing, Packaging and Testing sales in 2025, providing a comprehensive analysis by region and market sector of projected Semiconductor IC Design, Manufacturing, Packaging and Testing sales for 2026 through 2032. With Semiconductor IC Design, Manufacturing, Packaging and Testing sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US$ millions of the world Semiconductor IC Design, Manufacturing, Packaging and Testing industry.

This Insight Report provides a comprehensive analysis of the global Semiconductor IC Design, Manufacturing, Packaging and Testing 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 IC Design, Manufacturing, Packaging and Testing portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global Semiconductor IC Design, Manufacturing, Packaging and Testing market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Semiconductor IC Design, Manufacturing, Packaging and Testing and breaks down the forecast by Type, by Application, 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 IC Design, Manufacturing, Packaging and Testing.

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

Segmentation by Type:

IC Design

IC Manufacturing

IC Packaging & Testing

Segmentation by Application:

Communication

Computer/PC

Consumer

Automotive

Industrial

Others

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

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-Memory

Intel

SK Hynix

Micron Technology

Texas Instruments (TI)

STMicroelectronics

Kioxia

Sony Semiconductor Solutions Corporation (SSS)

Infineon

NXP

Analog Devices, Inc. (ADI)

Renesas Electronics

Microchip Technology

Onsemi

NVIDIA

Qualcomm

Broadcom

Advanced Micro Devices, Inc. (AMD)

MediaTek

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

TSMC

Samsung Foundry

GlobalFoundries

United Microelectronics Corporation (UMC)

SMIC

Tower Semiconductor

PSMC

VIS (Vanguard International Semiconductor)

Hua Hong Semiconductor

HLMC

ASE (SPIL)

Amkor

JCET (STATS ChipPAC)

Tongfu Microelectronics (TFME)

Powertech Technology Inc. (PTI)

HT-tech

King Yuan Electronics Corp. (KYEC)

ChipMOS TECHNOLOGIES

SFA Semicon

Chipbond Technology Corporation

UTAC

ASML

TEL (Tokyo Electron Ltd.)

Lam Research

KLA

Nikon

Carsem

SFA Semicon

Forehope Electronic (Ningbo) Co.,Ltd.

Unisem Group

OSE CORP.

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