

Global Semiconductor Testing and Analysis Services Market 2026 by Company, Regions, Type and Application, Forecast to 2032

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Abstracts

According to our (Global Info Research) latest study, the global Semiconductor Testing and Analysis Services market size was valued at US\$ 4981 million in 2025 and is forecast to a readjusted size of US\$ 7514 million by 2032 with a CAGR of 6.1% during review period.

Semiconductor testing and analysis services refer to sample-level testing, characterization, failure analysis, material analysis, and reliability analysis services provided by professional third-party laboratories or in-house specialized laboratories for customers across the semiconductor value chain. These services are typically performed on chips, wafers, packaged devices, modules, semiconductor materials, or equipment validation samples. Through technical methods such as non-destructive testing, electrical analysis, physical property analysis, microscopic structural characterization, surface and micro-area compositional analysis, and environmental, aging, and electrostatic testing, these services identify sample defects, locate failure sites, determine failure mechanisms, analyze material and contamination sources, and provide customers with analytical reports as well as recommendations for design, process, material, or quality improvement.

Semiconductor testing and analysis services are not conventional mass-production test outsourcing. Rather, they are high-technical-content laboratory services built around chip R&D, process validation, yield improvement, and quality failure traceability. Their core value lies in helping customers determine why a failure occurred, where the failure is located, what material or process issue caused it, and how subsequent improvements should be made through failure analysis, material analysis, and reliability analysis.

From the demand side, the growth of semiconductor testing and analytical services is mainly driven by three changes. First, technology roadmaps such as advanced process nodes, advanced packaging, Chiplet architectures, and SiC/GaN power devices have increased device structural complexity, making failure modes more hidden and analytical difficulty higher. Second, high-reliability applications such as automotive electronics, AI servers, industrial control, and aerospace impose stricter requirements on chip lifetime, stability, and failure responsibility determination. Third, China's domestic semiconductor value chain continues to validate new products and new processes across materials, equipment, wafer manufacturing, and packaging, driving incremental demand for third-party testing and analytical services. The service portfolios of international laboratories such as SGS and EAG also indicate that semiconductor testing and analysis typically cover multiple capabilities, including failure localization, material characterization, reliability testing, ESD testing, FIB, and contamination analysis, rather than a single testing item.

In terms of market competition, this industry has clear barriers in technology, equipment, and accumulated experience. High-end testing and analysis rely on expensive instruments such as TEM, FIB, SIMS, XPS, AFM, and SEM/EDS, as well as engineers' long-term expertise in device structures, packaging processes, material systems, and failure mechanisms. Therefore, customers place greater emphasis on a laboratory's case experience, delivery speed, analytical depth, confidentiality capability, and ability to extend from test results to root-cause determination.

Overall, semiconductor testing and analytical services constitute a form of R&D and quality infrastructure within the semiconductor value chain. As chip complexity increases, downstream applications impose higher reliability requirements, and domestic semiconductor companies move from initial validation to scaled iterative development, this market is expected to maintain steady growth. Automotive electronics, advanced packaging, power semiconductors, AI data center chips, and validation of domestic semiconductor equipment and materials will be the most clearly defined sources of future incremental demand.

This report is a detailed and comprehensive analysis for global Semiconductor Testing and Analysis Services 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 Testing and Analysis Services market size and forecasts, in consumption value (\$ Million), 2021-2032

Global Semiconductor Testing and Analysis Services market size and forecasts by region and country, in consumption value (\$ Million), 2021-2032

Global Semiconductor Testing and Analysis Services market size and forecasts, by Type and by Application, in consumption value (\$ Million), 2021-2032

Global Semiconductor Testing and Analysis Services market shares of main players, in revenue (\$ Million), 2021-2026

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 Testing and Analysis Services

- To forecast future growth in each product and end-use market

- To assess competitive factors affecting the marketplace

This report profiles key players in the global Semiconductor Testing and Analysis Services 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 EAG Laboratories, Integrated Service Technology (iST), Giga Force Electronics Co., Ltd, Matek, Wintech Nano (Suzhou) Co., Ltd, CHINAiSTI, Centre Testing International Group, GRG Metrology & Test Group Co., Ltd, CEPREI, SGS SA, etc.

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

Market segmentation

Semiconductor Testing and Analysis Services market is split by Type and by Application. For the period 2021-2032, 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

Failure Analysis

Materials Analysis

Reliability Testing

Market segment by Process

Advanced Nodes

Mature Nodes

Advanced Packaging & Materials

Market segment by Application

Consumer Electronics

Automotive Electronics

Industrial Control

Communications/Data Centers/AI Servers

Aerospace & Defense

Medical Electronics

New Energy

Others

Market segment by players, this report covers

EAG Laboratories

Integrated Service Technology (iST)

Giga Force Electronics Co., Ltd

Matek

Wintech Nano (Suzhou) Co., Ltd

CHINAiSTI

Centre Testing International Group

GRG Metrology & Test Group Co., Ltd

CEPREI

SGS SA

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 Testing and Analysis Services product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top players of Semiconductor Testing and Analysis Services, with revenue, gross margin, and global market share of Semiconductor Testing and Analysis Services from 2021 to 2026.

Chapter 3, the Semiconductor Testing and Analysis Services 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 2021 to 2032.

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 2021 to 2026. and Semiconductor Testing and Analysis Services market forecast, by regions, by Type and by Application, with consumption value, from 2027 to 2032.

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 Testing and Analysis Services.

Chapter 13, to describe Semiconductor Testing and Analysis Services research findings and conclusion.

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