

Global Semiconductor Testing and Analysis Services Market Growth (Status and Outlook) 2026-2032

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Abstracts

The global Semiconductor Testing and Analysis Services market size is predicted to grow from US\$ 4736 million in 2025 to US\$ 7297 million in 2032; it is expected to grow at a CAGR of 6.4% from 2026 to 2032.

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.

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

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

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Semiconductor Testing and Analysis Services 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 Testing and Analysis Services.

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

Segmentation by Type:

Failure Analysis

Materials Analysis

Reliability Testing

Segmentation by Process:

Advanced Nodes

Mature Nodes

Advanced Packaging & Materials

Segmentation by Application:

Consumer Electronics

Automotive Electronics

Industrial Control

Communications/Data Centers/AI Servers

Aerospace & Defense

Medical Electronics

New Energy

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.

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

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