

Global Semiconductor Testing, Analysis, and Certification 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, Analysis, and Certification Services market size was valued at US\$ 4596 million in 2025 and is forecast to a readjusted size of US\$ 6435 million by 2032 with a CAGR of 5.0% during review period.

Semiconductor testing, analysis, and certification services form a crucial technical service system spanning the entire chip design, manufacturing, and packaging process. Through specialized equipment, testing platforms, and engineering techniques, it systematically verifies and evaluates the electrical performance, functional integrity, reliability, environmental adaptability, and safety of semiconductor devices. Specifically, testing involves using automated test equipment (ATE) to quantitatively test wafers and finished chips for DC parameters, functional verification, and radio frequency characteristics, ensuring product compliance with design specifications. Analysis includes failure analysis (such as ultrasonic scanning, X-ray, and focused ion beam cutting) and materials analysis to pinpoint the root causes of chip failures and optimize processes. Certification is performed by independent third parties according to industry standards such as AEC-Q, JESD, and ISO 26262, confirming product reliability, functional safety, and compliance with automotive-grade applications, and issuing authoritative test reports. This service covers the entire lifecycle from R&D verification, wafer testing (CP), finished product testing (FT), to mass production monitoring, and is a core link in ensuring chip performance, reliability, and market access.

With the accelerated localization of the semiconductor industry, the explosive demand for automotive-grade chips, and the rapid penetration of emerging technologies, semiconductor testing, analysis, and certification services are entering a golden age of

rapid development. On the one hand, the demand for automotive-grade certifications such as AEC-Q100 in automotive electronics is surging, significantly increasing the amount of chips used per vehicle and driving the continued expansion of the reliability testing market. On the other hand, the evolution of chip manufacturing processes towards 3nm and below, and the popularization of advanced packaging technologies, have significantly increased testing complexity and costs, highlighting the growing value of third-party professional testing services. It is predicted that the global market will maintain a stable compound annual growth rate, with the Asia-Pacific region benefiting from the capacity expansion of semiconductor manufacturing hubs such as China, South Korea, and Taiwan, becoming the fastest-growing regional market.

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

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

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

Global Semiconductor Testing, Analysis, and Certification 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, Analysis, and Certification 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, Analysis, and Certification 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 AAA Test Lab, SGS SA, UL Solutions, Intertek, T?V S?D, Presto Engineering, EAG Laboratories, Measurlabs, Eurofins EAG Laboratories, CSA Group, etc.

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

Market segmentation

Semiconductor Testing, Analysis, and Certification 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

Testing

Analysis

Certification

Market segment by Manufacturing Stage

Design Verification Stage

Wafer Manufacturing Stage

Packaging and Testing Stage

Market segment by Industry Stage

R&D Testing

Mass Production Testing

Third-Party Independent Testing

Market segment by Application

Automobile and Transportation

Consumer Electronics

Communications

Others

Market segment by players, this report covers

AAA Test Lab

SGS SA

UL Solutions

Intertek

T?V S?D

Presto Engineering

EAG Laboratories

Measurlabs

Eurofins EAG Laboratories

CSA Group

Infinita Lab

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

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

Chapter 3, the Semiconductor Testing, Analysis, and Certification 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.

Semiconductor Testing, Analysis, and Certification 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, Analysis, and Certification Services.

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

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