

Global Semiconductor Testing, Analysis, and Certification Services Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Semiconductor Testing, Analysis, and Certification Services market size is expected to reach \$ 6435 million by 2032, rising at a market growth of 5.0% CAGR during the forecast period (2026-2032).

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 studies the global Semiconductor Testing, Analysis, and Certification Services demand, key companies, and key regions.

This report is a detailed and comprehensive analysis of the world market for Semiconductor Testing, Analysis, and Certification Services, and provides market size (US\$ million) and Year-over-Year (YoY) growth, considering 2025 as the base year. This report explores demand trends and competition, as well as details the characteristics of Semiconductor Testing, Analysis, and Certification Services that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Semiconductor Testing, Analysis, and Certification Services total market, 2021-2032, (USD Million)

Global Semiconductor Testing, Analysis, and Certification Services total market by region & country, CAGR, 2021-2032, (USD Million)

U.S. VS China: Semiconductor Testing, Analysis, and Certification Services total market, key domestic companies, and share, (USD Million)

Global Semiconductor Testing, Analysis, and Certification Services revenue by player, revenue and market share 2021-2026, (USD Million)

Global Semiconductor Testing, Analysis, and Certification Services total market by Type, CAGR, 2021-2032, (USD Million)

Global Semiconductor Testing, Analysis, and Certification Services total market by Application, CAGR, 2021-2032, (USD Million)

This report profiles major 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.

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the world Semiconductor Testing, Analysis, and Certification Services market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), by player, by regions, by Type, and by Application. Data is given for the years 2021-2032 by year with 2025 as the base year, 2026 as the estimate year, and 2027-2032 as the forecast year.

Global Semiconductor Testing, Analysis, and Certification Services Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Semiconductor Testing, Analysis, and Certification Services Market,
Segmentation by Type:

Testing

Analysis

Certification

Global Semiconductor Testing, Analysis, and Certification Services Market,
Segmentation by Manufacturing Stage:

Design Verification Stage

Wafer Manufacturing Stage

Packaging and Testing Stage

Global Semiconductor Testing, Analysis, and Certification Services Market,
Segmentation by Industry Stage:

R&D Testing

Mass Production Testing

Third-Party Independent Testing

Global Semiconductor Testing, Analysis, and Certification Services Market,
Segmentation by Application:

Automobile and Transportation

Consumer Electronics

Communications

Others

Companies Profiled:

AAA Test Lab

SGS SA

UL Solutions

Intertek

T?V S?D

Presto Engineering

EAG Laboratories

Measurlabs

Eurofins EAG Laboratories

CSA Group

Infinita Lab

Key Questions Answered

1. How big is the global Semiconductor Testing, Analysis, and Certification Services market?
2. What is the demand of the global Semiconductor Testing, Analysis, and Certification Services market?
3. What is the year over year growth of the global Semiconductor Testing, Analysis, and Certification Services market?
4. What is the total value of the global Semiconductor Testing, Analysis, and Certification Services market?
5. Who are the Major Players in the global Semiconductor Testing, Analysis, and Certification Services market?
6. What are the growth factors driving the market demand?

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