

Global SoC Test Systems Market 2026 by Manufacturers, Regions, Type and Application, Forecast to 2032

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Abstracts

According to our (Global Info Research) latest study, the global SoC Test Systems market size was valued at US\$ 3313 million in 2025 and is forecast to a readjusted size of US\$ 5285 million by 2032 with a CAGR of 7.0% during review period.

SoC test systems are automated test equipment platforms used for functional, parametric, interface, and reliability verification of complex integrated circuits during engineering introduction and volume production. Their core role is to integrate digital, analog, power, RF, imaging, and in some cases optoelectronic-related test resources into an expandable board-and-software architecture so they can address the rising test complexity caused by higher functional integration, more pins, heterogeneous integration, and continuously increasing data rates in SoC devices. Mainstream products now commonly adopt slot-based, board-based, multi-cage, or integrated test head architectures, and use high-parallel test, reconfigurable resources, load-board compatibility, software reuse, and customer-specific configuration to reduce unit test cost and shorten ramp time. Typical applications include mobile application processors, baseband and network processors, high-end MCUs, PMICs, wireless and mmWave devices, CIS devices, and high-compute chips such as AI, CPU, GPU, and HPC processors. Major customers include IDMs, fabless companies, OSATs, and research institutions, while the common delivery model is a platform solution combining the tester itself, test boards, software environment, interface hardware, and on-site services.

The system-on-chip tester industry is evolving from a traditional market for single-point testing equipment into an integrated platform market serving the mass production of complex chips. At present, the real core of industry change lies in which companies can integrate digital, analog, power, RF, imaging, software, interface boards, and parallel

test efficiency into a reusable, upgradeable, and mass-production-ready platform. This means that the value focus of SoC testers is shifting from standalone equipment performance metrics to the platform's overall ability to adapt to complex devices, improve production-line changeover efficiency, and control comprehensive testing costs. This is also the fundamental reason why leading manufacturers continue to consolidate their competitive advantages.

From the demand side, the direct drivers of industry growth are continuing to strengthen, and the quality of these drivers is higher than in the past. Smartphone application processors, network processors, high-end MCUs, PMICs, wireless connectivity chips, millimeter-wave devices, image sensors, as well as high-computing-power chips such as AI chips, CPUs, GPUs, and HPC chips, are all pushing testing platforms toward higher parallelism, higher speeds, and stronger resource density. In the future, the industry will not simply fluctuate along the traditional consumer electronics cycle. Instead, it will be increasingly driven by high-value-added demand from high-performance computing, advanced communications, heterogeneous packaging, and automotive-grade control. Whoever can keep pace more quickly with the rising testing complexity of these devices is more likely to win orders in the next round of equipment upgrades and production-line expansion.

From the perspective of competitive landscape and regional evolution, the industry is likely to maintain a pattern in the short term in which international leaders remain dominant while local manufacturers accelerate their catch-up, but the overall outlook is optimistic. Japan, the United States, Taiwan, South Korea, mainland China, and Europe all already have clear manufacturer layouts, indicating that the supply side is not monopolized by a single region. However, companies with true high-end platform capabilities and global service coverage remain concentrated. SoC testers will not merely grow passively alongside wafer fabs and packaging and testing plants. Instead, they are more likely to become an indispensable key equipment segment in advanced process manufacturing, advanced packaging, domestic substitution, and the mass production of high-end chips. For local manufacturers, the real opportunity is not low-end substitution, but entering higher-value segments through complex SoCs, high parallel testing, and platform-based design.

This report is a detailed and comprehensive analysis for global SoC Test Systems market. Both quantitative and qualitative analyses are presented by manufacturers, by region & country, by Testing Method 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 SoC Test Systems market size and forecasts, in consumption value (\$ Million), sales quantity (Units), and average selling prices (US\$/Unit), 2021-2032

Global SoC Test Systems market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (Units), and average selling prices (US\$/Unit), 2021-2032

Global SoC Test Systems market size and forecasts, by Testing Method and by Application, in consumption value (\$ Million), sales quantity (Units), and average selling prices (US\$/Unit), 2021-2032

Global SoC Test Systems market shares of main players, shipments in revenue (\$ Million), sales quantity (Units), and ASP (US\$/Unit), 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 SoC Test Systems
- 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 SoC Test Systems market based on the following parameters - company overview, sales quantity, revenue, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include ADVANTEST CORPORATION, Teradyne, Inc., Cohu, Inc., Chroma ATE Inc., SPEA S.p.A., EXICON Co., Ltd., ATEsolution Co., Ltd., Spirox Corporation, Nanjing Hongtai Semiconductor Technology Co., Ltd., Shenzhen CZTEK Co., Ltd., etc.

This report also provides key insights about market drivers, restraints, opportunities,

new product launches or approvals.

Market Segmentation

SoC Test Systems market is split by Testing Method and by Application. For the period 2021-2032, the growth among segments provides accurate calculations and forecasts for consumption value by Testing Method, and by Application in terms of volume and value. This analysis can help you expand your business by targeting qualified niche markets.

Market segment by Testing Method

Functional Test

Structural / Scan Test

Parametric Test

Mixed-Signal Test

Other

Market segment by Cooling Method

Air Cooling

Liquid Cooling

Market segment by Highest Published Data-Rate Tier

200Mbps and Below

201Mbps to 1Gbps

1Gbps to 5Gbps

5Gbps to 20Gbps

Above 20Gbps

Market segment by Application

Consumer Electronics

Mobile Communication

Industrial Control

Aerospace

Vehicle Electronics

Medical Electronics

Others

Major players covered

ADVANTEST CORPORATION

Teradyne, Inc.

Cohu, Inc.

Chroma ATE Inc.

SPEA S.p.A.

EXICON Co., Ltd.

ATEsolution Co., Ltd.

Spirox Corporation

Nanjing Hongtai Semiconductor Technology Co., Ltd.

Shenzhen CZTEK Co., Ltd.

Hangzhou Guolei Semiconductor Equipment Co., Ltd.

Hefei TBSTest Technology Co., Ltd.

Market segment by region, regional analysis covers

North America (United States, Canada, and Mexico)

Europe (Germany, France, United Kingdom, Russia, Italy, and Rest of Europe)

Asia-Pacific (China, Japan, Korea, India, Southeast Asia, and Australia)

South America (Brazil, Argentina, Colombia, and Rest of South America)

Middle East & Africa (Saudi Arabia, UAE, Egypt, South Africa, and Rest of Middle East & Africa)

The content of the study subjects, includes a total of 15 chapters:

Chapter 1, to describe SoC Test Systems product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of SoC Test Systems, with price, sales quantity, revenue, and global market share of SoC Test Systems from 2021 to 2026.

Chapter 3, the SoC Test Systems competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the SoC Test Systems breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2021 to 2032.

Chapter 5 and 6, to segment the sales by Testing Method and by Application, with sales

market share and growth rate by Testing Method, by Application, from 2021 to 2032.

Chapter 7, 8, 9, 10 and 11, to break the sales data at the country level, with sales quantity, consumption value, and market share for key countries in the world, from 2021 to 2026. and SoC Test Systems market forecast, by regions, by Testing Method, and by Application, with sales and revenue, from 2027 to 2032.

Chapter 12, market dynamics, drivers, restraints, trends, and Porters Five Forces analysis.

Chapter 13, the key raw materials and key suppliers, and industry chain of SoC Test Systems.

Chapter 14 and 15, to describe SoC Test Systems sales channel, distributors, customers, research findings and conclusion.

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