

Global SoC Test Systems Supply, Demand and Key Producers, 2026-2032

<https://marketpublishers.com/r/G15CB8B4C109EN.html>

Date: May 2026

Pages: 135

Price: US\$ 4,480.00 (Single User License)

ID: G15CB8B4C109EN

Abstracts

The global SoC Test Systems market size is expected to reach \$ 5285 million by 2032, rising at a market growth of 7.0% CAGR during the forecast period (2026-2032).

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 studies the global SoC Test Systems production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for SoC Test Systems 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 SoC Test Systems that contribute to

its increasing demand across many markets.

Highlights and key features of the study

Global SoC Test Systems total production and demand, 2021-2032, (Units)

Global SoC Test Systems total production value, 2021-2032, (USD Million)

Global SoC Test Systems production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Units), (based on production site)

Global SoC Test Systems consumption by region & country, CAGR, 2021-2032 & (Units)

U.S. VS China: SoC Test Systems domestic production, consumption, key domestic manufacturers and share

Global SoC Test Systems production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Units)

Global SoC Test Systems production by Testing Method, production, value, CAGR, 2021-2032, (USD Million) & (Units)

Global SoC Test Systems production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Units)

This report profiles key players in the global SoC Test Systems market based on the following parameters - company overview, production, value, 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.

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the World SoC Test Systems market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (Units) and average price (US\$/Unit) by manufacturer, by Testing Method, 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 SoC Test Systems Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global SoC Test Systems Market, Segmentation by Testing Method:

Functional Test

Structural / Scan Test

Parametric Test

Mixed-Signal Test

Other

Global SoC Test Systems Market, Segmentation by Cooling Method:

Air Cooling

Liquid Cooling

Global SoC Test Systems Market, Segmentation by Highest Published Data-Rate Tier:

200Mbps and Below

201Mbps to 1Gbps

1Gbps to 5Gbps

5Gbps to 20Gbps

Above 20Gbps

Global SoC Test Systems Market, Segmentation by Application:

Consumer Electronics

Mobile Communication

Industrial Control

Aerospace

Vehicle Electronics

Medical Electronics

Others

Companies Profiled:

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.

Key Questions Answered:

1. How big is the global SoC Test Systems market?
2. What is the demand of the global SoC Test Systems market?
3. What is the year over year growth of the global SoC Test Systems market?
4. What is the production and production value of the global SoC Test Systems market?
5. Who are the key producers in the global SoC Test Systems market?
6. What are the growth factors driving the market demand?

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