

Global Logic IC Testers Market Growth 2026-2032

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Abstracts

The global Logic IC Testers market size is predicted to grow from US\$ 5674 million in 2025 to US\$ 9892 million in 2032; it is expected to grow at a CAGR of 8.8% from 2026 to 2032.

In 2025, global logic IC tester production capacity is 18,000 units, with production reached approximately 12,800 units, with an average global market price of around US\$ 450,000 per unit. The market gross margin is mainly 35%-50%. A Logic IC Tester, also known as an Automated Test Equipment (ATE) system for logic devices, is a high-end electronic testing system used to verify the functionality, performance, and reliability of digital integrated circuits such as CPUs, GPUs, microcontrollers, ASICs, and SoCs. These testers apply electrical stimuli and analyze output responses to ensure chips meet design specifications and quality standards. Logic IC testers typically support high-speed digital signal testing, timing analysis, parametric measurements, and multi-site testing to improve throughput. They are essential in semiconductor manufacturing, especially during wafer sort and final test stages. With the increasing complexity of advanced nodes and high-performance computing chips, logic testers require higher pin counts, faster data rates, and advanced test algorithms.

The upstream of the logic IC tester industry includes high-speed electronic components, precision measurement modules, semiconductors, probe cards, sockets, and software tools. Advanced signal generation and measurement technologies are critical for tester performance. The midstream consists of system design, hardware integration, software development, and manufacturing by leading ATE suppliers. These systems require high precision, scalability, and compatibility with various chip architectures. The downstream market includes semiconductor foundries, IDMs, and OSAT companies responsible for chip testing and packaging. In addition to equipment sales, recurring revenues come from consumables (probe cards, sockets), software licenses, and maintenance services.

The logic IC tester market is driven by the continuous growth of the semiconductor industry and the increasing complexity of digital chips. As technologies such as AI, high-performance computing, and 5G expand, demand for advanced logic devices is rising, leading to greater need for high-performance testing solutions. The transition to smaller process nodes and higher integration levels is making testing more challenging, requiring testers with higher speed, accuracy, and scalability. Additionally, the adoption of heterogeneous integration and advanced packaging technologies is increasing the complexity of test requirements. Automation, data analytics, and AI-driven test optimization are becoming key trends, improving test efficiency and yield. Leading ATE suppliers are continuously innovating to meet evolving industry needs. Overall, the market is expected to grow steadily, supported by strong demand for advanced semiconductor devices and the critical role of testing in ensuring quality and reliability.

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

This Insight Report provides a comprehensive analysis of the global Logic IC Testers landscape and highlights key trends related to product segmentation, company formation, revenue, and market share, latest development, and M&A activity. This report also analyzes the strategies of leading global companies with a focus on Logic IC Testers portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global Logic IC Testers market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Logic IC Testers 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 Logic IC Testers.

This report presents a comprehensive overview, market shares, and growth opportunities of Logic IC Testers market by product type, application, key manufacturers and key regions and countries.

Segmentation by Type:

6-slot System

12-slot System

24-slot System

Others

Segmentation by Test Speed:

Low Speed (1 GHz, DDR5/PCIe)

Segmentation by Test Capability:

Functional Test

Parametric Test

Timing Test

Segmentation by Application:

IDMs

OSATs

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 analysing the company's coverage, product portfolio, its market penetration.

Teradyne

Advantest

Cohu

Chroma ATE

Exicon

PowerTECH

HILEVEL Technology

SPEA S.p.A.

Wuhan Jingce Electronic Group

TBSTest Technologies

IT&T

AEM Holdings Ltd

King Long Technology

Macrotest

Testram Co.,Ltd.

MJC

MICROTEST

Test Research, Inc.

YTEC

Key Questions Addressed in this Report

What is the 10-year outlook for the global Logic IC Testers market?

What factors are driving Logic IC Testers market growth, globally and by region?

Which technologies are poised for the fastest growth by market and region?

How do Logic IC Testers market opportunities vary by end market size?

How does Logic IC Testers break out by Type, by Application?

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