

Global Logic IC Testers Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Logic IC Testers market size is expected to reach \$ 10111 million by 2032, rising at a market growth of 8.3% CAGR during the forecast period (2026-2032).

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.

This report studies the global Logic IC Testers production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Logic IC Testers 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 Logic IC Testers that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Logic IC Testers total production and demand, 2021-2032, (Units)

Global Logic IC Testers total production value, 2021-2032, (USD Million)

Global Logic IC Testers production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Units), (based on production site)

Global Logic IC Testers consumption by region & country, CAGR, 2021-2032 & (Units)

U.S. VS China: Logic IC Testers domestic production, consumption, key domestic manufacturers and share

Global Logic IC Testers production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Units)

Global Logic IC Testers production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Units)

Global Logic IC Testers production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Units)

This report profiles key players in the global Logic IC Testers 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 Teradyne, Advantest, Cohu, Chroma ATE, Exicon, PowerTECH, HILEVEL Technology, SPEA S.p.A., Wuhan Jingce Electronic Group, TBSTest Technologies, 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 Logic IC Testers market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (Units) and average price (K US\$/Unit) by manufacturer, 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 Logic IC Testers Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Logic IC Testers Market, Segmentation by Type:

6-slot System

12-slot System

24-slot System

Others

Global Logic IC Testers Market, Segmentation by Test Speed:

Low Speed (1 GHz, DDR5/PCIe)

Global Logic IC Testers Market, Segmentation by Test Capability:

Functional Test

Parametric Test

Timing Test

Global Logic IC Testers Market, Segmentation by Application:

IDMs

OSATs

Companies Profiled:

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 Answered:

1. How big is the global Logic IC Testers market?
2. What is the demand of the global Logic IC Testers market?
3. What is the year over year growth of the global Logic IC Testers market?
4. What is the production and production value of the global Logic IC Testers market?

5. Who are the key producers in the global Logic IC Testers market?
6. What are the growth factors driving the market demand?

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