

Global Logic IC Testers 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 Logic IC Testers market size was valued at US\$ 5968 million in 2025 and is forecast to a readjusted size of US\$ 10111 million by 2032 with a CAGR of 8.3% during review period.

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 is a detailed and comprehensive analysis for global Logic IC Testers market. Both quantitative and qualitative analyses are presented by manufacturers, by region & country, by Type 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 Logic IC Testers market size and forecasts, in consumption value (\$ Million), sales quantity (Units), and average selling prices (K US\$/Unit), 2021-2032

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

Global Logic IC Testers market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (Units), and average selling prices (K US\$/Unit), 2021-2032

Global Logic IC Testers market shares of main players, shipments in revenue (\$

Million), sales quantity (Units), and ASP (K 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 Logic IC Testers

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 Logic IC Testers 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 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.

Market Segmentation

Logic IC Testers market is split by Type and by Application. For the period 2021-2032, the growth among segments provides accurate calculations and forecasts for consumption value by Type, 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 Type

6-slot System

12-slot System

24-slot System

Others

Market segment by Test Speed

Low Speed (1 GHz, DDR5/PCIe)

Market segment by Test Capability

Functional Test

Parametric Test

Timing Test

Market segment by Application

IDMs

OSATs

Major players covered

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

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 Logic IC Testers product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Logic IC Testers, with price, sales quantity, revenue, and global market share of Logic IC Testers from 2021 to 2026.

Chapter 3, the Logic IC Testers competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Logic IC Testers 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 Type and by Application, with sales market share and growth rate by Type, 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 Logic IC Testers market forecast, by regions, by Type, 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 Logic IC Testers.

Chapter 14 and 15, to describe Logic IC Testers sales channel, distributors, customers, research findings and conclusion.

Contents

1 MARKET OVERVIEW

1.1 Product Overview and Scope

1.2 Market Estimation Caveats and Base Year

1.3 Market Analysis by Type

1.3.1 Overview: Global Logic IC Testers Consumption Value by Type: 2021 Versus 2025 Versus 2032

1.3.2 6-slot System

1.3.3 12-slot System

1.3.4 24-slot System

1.3.5 Others

1.4 Market Analysis by Test Speed

1.4.1 Overview: Global Logic IC Testers Consumption Value by Test Speed: 2021 Versus 2025 Versus 2032

1.4.2 Low Speed (1 GHz, DDR5/PCIe)

1.5 Market Analysis by Test Capability

1.5.1 Overview: Global Logic IC Testers Consumption Value by Test Capability: 2021 Versus 2025 Versus 2032

1.5.2 Functional Test

1.5.3 Parametric Test

1.5.4 Timing Test

1.6 Market Analysis by Application

1.6.1 Overview: Global Logic IC Testers Consumption Value by Application: 2021 Versus 2025 Versus 2032

1.6.2 IDMs

1.6.3 OSATs

1.7 Global Logic IC Testers Market Size & Forecast

1.7.1 Global Logic IC Testers Consumption Value (2021 & 2025 & 2032)

1.7.2 Global Logic IC Testers Sales Quantity (2021-2032)

1.7.3 Global Logic IC Testers Average Price (2021-2032)

2 MANUFACTURERS PROFILES

2.1 Teradyne

2.1.1 Teradyne Details

2.1.2 Teradyne Major Business

2.1.3 Teradyne Logic IC Testers Product and Services

2.1.4 Teradyne Logic IC Testers Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

2.1.5 Teradyne Recent Developments/Updates

2.2 Advantest

2.2.1 Advantest Details

2.2.2 Advantest Major Business

2.2.3 Advantest Logic IC Testers Product and Services

2.2.4 Advantest Logic IC Testers Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

2.2.5 Advantest Recent Developments/Updates

2.3 Cohu

2.3.1 Cohu Details

2.3.2 Cohu Major Business

2.3.3 Cohu Logic IC Testers Product and Services

2.3.4 Cohu Logic IC Testers Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

2.3.5 Cohu Recent Developments/Updates

2.4 Chroma ATE

2.4.1 Chroma ATE Details

2.4.2 Chroma ATE Major Business

2.4.3 Chroma ATE Logic IC Testers Product and Services

2.4.4 Chroma ATE Logic IC Testers Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

2.4.5 Chroma ATE Recent Developments/Updates

2.5 Exicon

2.5.1 Exicon Details

2.5.2 Exicon Major Business

2.5.3 Exicon Logic IC Testers Product and Services

2.5.4 Exicon Logic IC Testers Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

2.5.5 Exicon Recent Developments/Updates

2.6 PowerTECH

2.6.1 PowerTECH Details

2.6.2 PowerTECH Major Business

2.6.3 PowerTECH Logic IC Testers Product and Services

2.6.4 PowerTECH Logic IC Testers Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

2.6.5 PowerTECH Recent Developments/Updates

2.7 HILEVEL Technology

- 2.7.1 HILEVEL Technology Details
- 2.7.2 HILEVEL Technology Major Business
- 2.7.3 HILEVEL Technology Logic IC Testers Product and Services
- 2.7.4 HILEVEL Technology Logic IC Testers Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
- 2.7.5 HILEVEL Technology Recent Developments/Updates
- 2.8 SPEA S.p.A.
 - 2.8.1 SPEA S.p.A. Details
 - 2.8.2 SPEA S.p.A. Major Business
 - 2.8.3 SPEA S.p.A. Logic IC Testers Product and Services
 - 2.8.4 SPEA S.p.A. Logic IC Testers Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
 - 2.8.5 SPEA S.p.A. Recent Developments/Updates
- 2.9 Wuhan Jingce Electronic Group
 - 2.9.1 Wuhan Jingce Electronic Group Details
 - 2.9.2 Wuhan Jingce Electronic Group Major Business
 - 2.9.3 Wuhan Jingce Electronic Group Logic IC Testers Product and Services
 - 2.9.4 Wuhan Jingce Electronic Group Logic IC Testers Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
 - 2.9.5 Wuhan Jingce Electronic Group Recent Developments/Updates
- 2.10 TBSTest Technologies
 - 2.10.1 TBSTest Technologies Details
 - 2.10.2 TBSTest Technologies Major Business
 - 2.10.3 TBSTest Technologies Logic IC Testers Product and Services
 - 2.10.4 TBSTest Technologies Logic IC Testers Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
 - 2.10.5 TBSTest Technologies Recent Developments/Updates
- 2.11 IT&T
 - 2.11.1 IT&T Details
 - 2.11.2 IT&T Major Business
 - 2.11.3 IT&T Logic IC Testers Product and Services
 - 2.11.4 IT&T Logic IC Testers Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
 - 2.11.5 IT&T Recent Developments/Updates
- 2.12 AEM Holdings Ltd
 - 2.12.1 AEM Holdings Ltd Details
 - 2.12.2 AEM Holdings Ltd Major Business
 - 2.12.3 AEM Holdings Ltd Logic IC Testers Product and Services
 - 2.12.4 AEM Holdings Ltd Logic IC Testers Sales Quantity, Average Price, Revenue,

Gross Margin and Market Share (2021-2026)

2.12.5 AEM Holdings Ltd Recent Developments/Updates

2.13 King Long Technology

2.13.1 King Long Technology Details

2.13.2 King Long Technology Major Business

2.13.3 King Long Technology Logic IC Testers Product and Services

2.13.4 King Long Technology Logic IC Testers Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

2.13.5 King Long Technology Recent Developments/Updates

2.14 Macrotest

2.14.1 Macrotest Details

2.14.2 Macrotest Major Business

2.14.3 Macrotest Logic IC Testers Product and Services

2.14.4 Macrotest Logic IC Testers Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

2.14.5 Macrotest Recent Developments/Updates

2.15 Testram Co.,Ltd.

2.15.1 Testram Co.,Ltd. Details

2.15.2 Testram Co.,Ltd. Major Business

2.15.3 Testram Co.,Ltd. Logic IC Testers Product and Services

2.15.4 Testram Co.,Ltd. Logic IC Testers Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

2.15.5 Testram Co.,Ltd. Recent Developments/Updates

2.16 MJC

2.16.1 MJC Details

2.16.2 MJC Major Business

2.16.3 MJC Logic IC Testers Product and Services

2.16.4 MJC Logic IC Testers Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

2.16.5 MJC Recent Developments/Updates

2.17 MICROTTEST

2.17.1 MICROTTEST Details

2.17.2 MICROTTEST Major Business

2.17.3 MICROTTEST Logic IC Testers Product and Services

2.17.4 MICROTTEST Logic IC Testers Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

2.17.5 MICROTTEST Recent Developments/Updates

2.18 Test Research, Inc.

2.18.1 Test Research, Inc. Details

- 2.18.2 Test Research, Inc. Major Business
- 2.18.3 Test Research, Inc. Logic IC Testers Product and Services
- 2.18.4 Test Research, Inc. Logic IC Testers Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
- 2.18.5 Test Research, Inc. Recent Developments/Updates
- 2.19 YTEC
 - 2.19.1 YTEC Details
 - 2.19.2 YTEC Major Business
 - 2.19.3 YTEC Logic IC Testers Product and Services
 - 2.19.4 YTEC Logic IC Testers Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
 - 2.19.5 YTEC Recent Developments/Updates

3 COMPETITIVE ENVIRONMENT: LOGIC IC TESTERS BY MANUFACTURER

- 3.1 Global Logic IC Testers Sales Quantity by Manufacturer (2021-2026)
- 3.2 Global Logic IC Testers Revenue by Manufacturer (2021-2026)
- 3.3 Global Logic IC Testers Average Price by Manufacturer (2021-2026)
- 3.4 Market Share Analysis (2025)
 - 3.4.1 Producer Shipments of Logic IC Testers by Manufacturer Revenue (\$MM) and Market Share (%): 2025
 - 3.4.2 Top 3 Logic IC Testers Manufacturer Market Share in 2025
 - 3.4.3 Top 6 Logic IC Testers Manufacturer Market Share in 2025
- 3.5 Logic IC Testers Market: Overall Company Footprint Analysis
 - 3.5.1 Logic IC Testers Market: Region Footprint
 - 3.5.2 Logic IC Testers Market: Company Product Type Footprint
 - 3.5.3 Logic IC Testers Market: Company Product Application Footprint
- 3.6 New Market Entrants and Barriers to Market Entry
- 3.7 Mergers, Acquisition, Agreements, and Collaborations

4 CONSUMPTION ANALYSIS BY REGION

- 4.1 Global Logic IC Testers Market Size by Region
 - 4.1.1 Global Logic IC Testers Sales Quantity by Region (2021-2032)
 - 4.1.2 Global Logic IC Testers Consumption Value by Region (2021-2032)
 - 4.1.3 Global Logic IC Testers Average Price by Region (2021-2032)
- 4.2 North America Logic IC Testers Consumption Value (2021-2032)
- 4.3 Europe Logic IC Testers Consumption Value (2021-2032)
- 4.4 Asia-Pacific Logic IC Testers Consumption Value (2021-2032)

4.5 South America Logic IC Testers Consumption Value (2021-2032)

4.6 Middle East & Africa Logic IC Testers Consumption Value (2021-2032)

5 MARKET SEGMENT BY TYPE

5.1 Global Logic IC Testers Sales Quantity by Type (2021-2032)

5.2 Global Logic IC Testers Consumption Value by Type (2021-2032)

5.3 Global Logic IC Testers Average Price by Type (2021-2032)

6 MARKET SEGMENT BY APPLICATION

6.1 Global Logic IC Testers Sales Quantity by Application (2021-2032)

6.2 Global Logic IC Testers Consumption Value by Application (2021-2032)

6.3 Global Logic IC Testers Average Price by Application (2021-2032)

7 NORTH AMERICA

7.1 North America Logic IC Testers Sales Quantity by Type (2021-2032)

7.2 North America Logic IC Testers Sales Quantity by Application (2021-2032)

7.3 North America Logic IC Testers Market Size by Country

7.3.1 North America Logic IC Testers Sales Quantity by Country (2021-2032)

7.3.2 North America Logic IC Testers Consumption Value by Country (2021-2032)

7.3.3 United States Market Size and Forecast (2021-2032)

7.3.4 Canada Market Size and Forecast (2021-2032)

7.3.5 Mexico Market Size and Forecast (2021-2032)

8 EUROPE

8.1 Europe Logic IC Testers Sales Quantity by Type (2021-2032)

8.2 Europe Logic IC Testers Sales Quantity by Application (2021-2032)

8.3 Europe Logic IC Testers Market Size by Country

8.3.1 Europe Logic IC Testers Sales Quantity by Country (2021-2032)

8.3.2 Europe Logic IC Testers Consumption Value by Country (2021-2032)

8.3.3 Germany Market Size and Forecast (2021-2032)

8.3.4 France Market Size and Forecast (2021-2032)

8.3.5 United Kingdom Market Size and Forecast (2021-2032)

8.3.6 Russia Market Size and Forecast (2021-2032)

8.3.7 Italy Market Size and Forecast (2021-2032)

9 ASIA-PACIFIC

- 9.1 Asia-Pacific Logic IC Testers Sales Quantity by Type (2021-2032)
- 9.2 Asia-Pacific Logic IC Testers Sales Quantity by Application (2021-2032)
- 9.3 Asia-Pacific Logic IC Testers Market Size by Region
 - 9.3.1 Asia-Pacific Logic IC Testers Sales Quantity by Region (2021-2032)
 - 9.3.2 Asia-Pacific Logic IC Testers Consumption Value by Region (2021-2032)
 - 9.3.3 China Market Size and Forecast (2021-2032)
 - 9.3.4 Japan Market Size and Forecast (2021-2032)
 - 9.3.5 South Korea Market Size and Forecast (2021-2032)
 - 9.3.6 India Market Size and Forecast (2021-2032)
 - 9.3.7 Southeast Asia Market Size and Forecast (2021-2032)
 - 9.3.8 Australia Market Size and Forecast (2021-2032)

10 SOUTH AMERICA

- 10.1 South America Logic IC Testers Sales Quantity by Type (2021-2032)
- 10.2 South America Logic IC Testers Sales Quantity by Application (2021-2032)
- 10.3 South America Logic IC Testers Market Size by Country
 - 10.3.1 South America Logic IC Testers Sales Quantity by Country (2021-2032)
 - 10.3.2 South America Logic IC Testers Consumption Value by Country (2021-2032)
 - 10.3.3 Brazil Market Size and Forecast (2021-2032)
 - 10.3.4 Argentina Market Size and Forecast (2021-2032)

11 MIDDLE EAST & AFRICA

- 11.1 Middle East & Africa Logic IC Testers Sales Quantity by Type (2021-2032)
- 11.2 Middle East & Africa Logic IC Testers Sales Quantity by Application (2021-2032)
- 11.3 Middle East & Africa Logic IC Testers Market Size by Country
 - 11.3.1 Middle East & Africa Logic IC Testers Sales Quantity by Country (2021-2032)
 - 11.3.2 Middle East & Africa Logic IC Testers Consumption Value by Country (2021-2032)
 - 11.3.3 Turkey Market Size and Forecast (2021-2032)
 - 11.3.4 Egypt Market Size and Forecast (2021-2032)
 - 11.3.5 Saudi Arabia Market Size and Forecast (2021-2032)
 - 11.3.6 South Africa Market Size and Forecast (2021-2032)

12 MARKET DYNAMICS

- 12.1 Logic IC Testers Market Drivers
- 12.2 Logic IC Testers Market Restraints
- 12.3 Logic IC Testers Trends Analysis
- 12.4 Porters Five Forces Analysis
 - 12.4.1 Threat of New Entrants
 - 12.4.2 Bargaining Power of Suppliers
 - 12.4.3 Bargaining Power of Buyers
 - 12.4.4 Threat of Substitutes
 - 12.4.5 Competitive Rivalry

13 RAW MATERIAL AND INDUSTRY CHAIN

- 13.1 Raw Material of Logic IC Testers and Key Manufacturers
- 13.2 Manufacturing Costs Percentage of Logic IC Testers
- 13.3 Logic IC Testers Production Process
- 13.4 Industry Value Chain Analysis

14 SHIPMENTS BY DISTRIBUTION CHANNEL

- 14.1 Sales Channel
 - 14.1.1 Direct to End-User
 - 14.1.2 Distributors
- 14.2 Logic IC Testers Typical Distributors
- 14.3 Logic IC Testers Typical Customers

15 RESEARCH FINDINGS AND CONCLUSION

16 APPENDIX

- 16.1 Methodology
- 16.2 Research Process and Data Source
- 16.3 Disclaimer

List Of Tables

LIST OF TABLES

Table 1. Global Logic IC Testers Consumption Value by Type, (USD Million), 2021 & 2025 & 2032

Table 2. Global Logic IC Testers Consumption Value by Test Speed, (USD Million), 2021 & 2025 & 2032

Table 3. Global Logic IC Testers Consumption Value by Test Capability, (USD Million), 2021 & 2025 & 2032

Table 4. Global Logic IC Testers Consumption Value by Application, (USD Million), 2021 & 2025 & 2032

Table 5. Teradyne Basic Information, Manufacturing Base and Competitors

Table 6. Teradyne Major Business

Table 7. Teradyne Logic IC Testers Product and Services

Table 8. Teradyne Logic IC Testers Sales Quantity (Units), Average Price (K US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 9. Teradyne Recent Developments/Updates

Table 10. Advantest Basic Information, Manufacturing Base and Competitors

Table 11. Advantest Major Business

Table 12. Advantest Logic IC Testers Product and Services

Table 13. Advantest Logic IC Testers Sales Quantity (Units), Average Price (K US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 14. Advantest Recent Developments/Updates

Table 15. Cohu Basic Information, Manufacturing Base and Competitors

Table 16. Cohu Major Business

Table 17. Cohu Logic IC Testers Product and Services

Table 18. Cohu Logic IC Testers Sales Quantity (Units), Average Price (K US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 19. Cohu Recent Developments/Updates

Table 20. Chroma ATE Basic Information, Manufacturing Base and Competitors

Table 21. Chroma ATE Major Business

Table 22. Chroma ATE Logic IC Testers Product and Services

Table 23. Chroma ATE Logic IC Testers Sales Quantity (Units), Average Price (K US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 24. Chroma ATE Recent Developments/Updates

Table 25. Exicon Basic Information, Manufacturing Base and Competitors

Table 26. Exicon Major Business

Table 27. Exicon Logic IC Testers Product and Services

Table 28. Exicon Logic IC Testers Sales Quantity (Units), Average Price (K US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 29. Exicon Recent Developments/Updates

Table 30. PowerTECH Basic Information, Manufacturing Base and Competitors

Table 31. PowerTECH Major Business

Table 32. PowerTECH Logic IC Testers Product and Services

Table 33. PowerTECH Logic IC Testers Sales Quantity (Units), Average Price (K US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 34. PowerTECH Recent Developments/Updates

Table 35. HILEVEL Technology Basic Information, Manufacturing Base and Competitors

Table 36. HILEVEL Technology Major Business

Table 37. HILEVEL Technology Logic IC Testers Product and Services

Table 38. HILEVEL Technology Logic IC Testers Sales Quantity (Units), Average Price (K US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 39. HILEVEL Technology Recent Developments/Updates

Table 40. SPEA S.p.A. Basic Information, Manufacturing Base and Competitors

Table 41. SPEA S.p.A. Major Business

Table 42. SPEA S.p.A. Logic IC Testers Product and Services

Table 43. SPEA S.p.A. Logic IC Testers Sales Quantity (Units), Average Price (K US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 44. SPEA S.p.A. Recent Developments/Updates

Table 45. Wuhan Jingce Electronic Group Basic Information, Manufacturing Base and Competitors

Table 46. Wuhan Jingce Electronic Group Major Business

Table 47. Wuhan Jingce Electronic Group Logic IC Testers Product and Services

Table 48. Wuhan Jingce Electronic Group Logic IC Testers Sales Quantity (Units), Average Price (K US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 49. Wuhan Jingce Electronic Group Recent Developments/Updates

Table 50. TBSTest Technologies Basic Information, Manufacturing Base and Competitors

Table 51. TBSTest Technologies Major Business

Table 52. TBSTest Technologies Logic IC Testers Product and Services

Table 53. TBSTest Technologies Logic IC Testers Sales Quantity (Units), Average Price (K US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 54. TBSTest Technologies Recent Developments/Updates

Table 55. IT&T Basic Information, Manufacturing Base and Competitors

Table 56. IT&T Major Business

- Table 57. IT&T Logic IC Testers Product and Services
- Table 58. IT&T Logic IC Testers Sales Quantity (Units), Average Price (K US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)
- Table 59. IT&T Recent Developments/Updates
- Table 60. AEM Holdings Ltd Basic Information, Manufacturing Base and Competitors
- Table 61. AEM Holdings Ltd Major Business
- Table 62. AEM Holdings Ltd Logic IC Testers Product and Services
- Table 63. AEM Holdings Ltd Logic IC Testers Sales Quantity (Units), Average Price (K US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)
- Table 64. AEM Holdings Ltd Recent Developments/Updates
- Table 65. King Long Technology Basic Information, Manufacturing Base and Competitors
- Table 66. King Long Technology Major Business
- Table 67. King Long Technology Logic IC Testers Product and Services
- Table 68. King Long Technology Logic IC Testers Sales Quantity (Units), Average Price (K US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)
- Table 69. King Long Technology Recent Developments/Updates
- Table 70. Macrotest Basic Information, Manufacturing Base and Competitors
- Table 71. Macrotest Major Business
- Table 72. Macrotest Logic IC Testers Product and Services
- Table 73. Macrotest Logic IC Testers Sales Quantity (Units), Average Price (K US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)
- Table 74. Macrotest Recent Developments/Updates
- Table 75. Testram Co.,Ltd. Basic Information, Manufacturing Base and Competitors
- Table 76. Testram Co.,Ltd. Major Business
- Table 77. Testram Co.,Ltd. Logic IC Testers Product and Services
- Table 78. Testram Co.,Ltd. Logic IC Testers Sales Quantity (Units), Average Price (K US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)
- Table 79. Testram Co.,Ltd. Recent Developments/Updates
- Table 80. MJC Basic Information, Manufacturing Base and Competitors
- Table 81. MJC Major Business
- Table 82. MJC Logic IC Testers Product and Services
- Table 83. MJC Logic IC Testers Sales Quantity (Units), Average Price (K US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)
- Table 84. MJC Recent Developments/Updates
- Table 85. MICROTEST Basic Information, Manufacturing Base and Competitors
- Table 86. MICROTEST Major Business
- Table 87. MICROTEST Logic IC Testers Product and Services
- Table 88. MICROTEST Logic IC Testers Sales Quantity (Units), Average Price (K

US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 89. MICROTEST Recent Developments/Updates

Table 90. Test Research, Inc. Basic Information, Manufacturing Base and Competitors

Table 91. Test Research, Inc. Major Business

Table 92. Test Research, Inc. Logic IC Testers Product and Services

Table 93. Test Research, Inc. Logic IC Testers Sales Quantity (Units), Average Price (K US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 94. Test Research, Inc. Recent Developments/Updates

Table 95. YTEC Basic Information, Manufacturing Base and Competitors

Table 96. YTEC Major Business

Table 97. YTEC Logic IC Testers Product and Services

Table 98. YTEC Logic IC Testers Sales Quantity (Units), Average Price (K US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 99. YTEC Recent Developments/Updates

Table 100. Global Logic IC Testers Sales Quantity by Manufacturer (2021-2026) & (Units)

Table 101. Global Logic IC Testers Revenue by Manufacturer (2021-2026) & (USD Million)

Table 102. Global Logic IC Testers Average Price by Manufacturer (2021-2026) & (K US\$/Unit)

Table 103. Market Position of Manufacturers in Logic IC Testers, (Tier 1, Tier 2, and Tier 3), Based on Revenue in 2025

Table 104. Head Office and Logic IC Testers Production Site of Key Manufacturer

Table 105. Logic IC Testers Market: Company Product Type Footprint

Table 106. Logic IC Testers Market: Company Product Application Footprint

Table 107. Logic IC Testers New Market Entrants and Barriers to Market Entry

Table 108. Logic IC Testers Mergers, Acquisition, Agreements, and Collaborations

Table 109. Global Logic IC Testers Consumption Value by Region (2021-2025-2032) & (USD Million) & CAGR

Table 110. Global Logic IC Testers Sales Quantity by Region (2021-2026) & (Units)

Table 111. Global Logic IC Testers Sales Quantity by Region (2027-2032) & (Units)

Table 112. Global Logic IC Testers Consumption Value by Region (2021-2026) & (USD Million)

Table 113. Global Logic IC Testers Consumption Value by Region (2027-2032) & (USD Million)

Table 114. Global Logic IC Testers Average Price by Region (2021-2026) & (K US\$/Unit)

Table 115. Global Logic IC Testers Average Price by Region (2027-2032) & (K US\$/Unit)

Table 116. Global Logic IC Testers Sales Quantity by Type (2021-2026) & (Units)

Table 117. Global Logic IC Testers Sales Quantity by Type (2027-2032) & (Units)

Table 118. Global Logic IC Testers Consumption Value by Type (2021-2026) & (USD Million)

Table 119. Global Logic IC Testers Consumption Value by Type (2027-2032) & (USD Million)

Table 120. Global Logic IC Testers Average Price by Type (2021-2026) & (K US\$/Unit)

Table 121. Global Logic IC Testers Average Price by Type (2027-2032) & (K US\$/Unit)

Table 122. Global Logic IC Testers Sales Quantity by Application (2021-2026) & (Units)

Table 123. Global Logic IC Testers Sales Quantity by Application (2027-2032) & (Units)

Table 124. Global Logic IC Testers Consumption Value by Application (2021-2026) & (USD Million)

Table 125. Global Logic IC Testers Consumption Value by Application (2027-2032) & (USD Million)

Table 126. Global Logic IC Testers Average Price by Application (2021-2026) & (K US\$/Unit)

Table 127. Global Logic IC Testers Average Price by Application (2027-2032) & (K US\$/Unit)

Table 128. North America Logic IC Testers Sales Quantity by Type (2021-2026) & (Units)

Table 129. North America Logic IC Testers Sales Quantity by Type (2027-2032) & (Units)

Table 130. North America Logic IC Testers Sales Quantity by Application (2021-2026) & (Units)

Table 131. North America Logic IC Testers Sales Quantity by Application (2027-2032) & (Units)

Table 132. North America Logic IC Testers Sales Quantity by Country (2021-2026) & (Units)

Table 133. North America Logic IC Testers Sales Quantity by Country (2027-2032) & (Units)

Table 134. North America Logic IC Testers Consumption Value by Country (2021-2026) & (USD Million)

Table 135. North America Logic IC Testers Consumption Value by Country (2027-2032) & (USD Million)

Table 136. Europe Logic IC Testers Sales Quantity by Type (2021-2026) & (Units)

Table 137. Europe Logic IC Testers Sales Quantity by Type (2027-2032) & (Units)

Table 138. Europe Logic IC Testers Sales Quantity by Application (2021-2026) & (Units)

Table 139. Europe Logic IC Testers Sales Quantity by Application (2027-2032) & (Units)

Table 140. Europe Logic IC Testers Sales Quantity by Country (2021-2026) & (Units)

Table 141. Europe Logic IC Testers Sales Quantity by Country (2027-2032) & (Units)

Table 142. Europe Logic IC Testers Consumption Value by Country (2021-2026) & (USD Million)

Table 143. Europe Logic IC Testers Consumption Value by Country (2027-2032) & (USD Million)

Table 144. Asia-Pacific Logic IC Testers Sales Quantity by Type (2021-2026) & (Units)

Table 145. Asia-Pacific Logic IC Testers Sales Quantity by Type (2027-2032) & (Units)

Table 146. Asia-Pacific Logic IC Testers Sales Quantity by Application (2021-2026) & (Units)

Table 147. Asia-Pacific Logic IC Testers Sales Quantity by Application (2027-2032) & (Units)

Table 148. Asia-Pacific Logic IC Testers Sales Quantity by Region (2021-2026) & (Units)

Table 149. Asia-Pacific Logic IC Testers Sales Quantity by Region (2027-2032) & (Units)

Table 150. Asia-Pacific Logic IC Testers Consumption Value by Region (2021-2026) & (USD Million)

Table 151. Asia-Pacific Logic IC Testers Consumption Value by Region (2027-2032) & (USD Million)

Table 152. South America Logic IC Testers Sales Quantity by Type (2021-2026) & (Units)

Table 153. South America Logic IC Testers Sales Quantity by Type (2027-2032) & (Units)

Table 154. South America Logic IC Testers Sales Quantity by Application (2021-2026) & (Units)

Table 155. South America Logic IC Testers Sales Quantity by Application (2027-2032) & (Units)

Table 156. South America Logic IC Testers Sales Quantity by Country (2021-2026) & (Units)

Table 157. South America Logic IC Testers Sales Quantity by Country (2027-2032) & (Units)

Table 158. South America Logic IC Testers Consumption Value by Country (2021-2026) & (USD Million)

Table 159. South America Logic IC Testers Consumption Value by Country (2027-2032) & (USD Million)

Table 160. Middle East & Africa Logic IC Testers Sales Quantity by Type (2021-2026) & (Units)

Table 161. Middle East & Africa Logic IC Testers Sales Quantity by Type (2027-2032) & (Units)

Table 162. Middle East & Africa Logic IC Testers Sales Quantity by Application (2021-2026) & (Units)

Table 163. Middle East & Africa Logic IC Testers Sales Quantity by Application (2027-2032) & (Units)

Table 164. Middle East & Africa Logic IC Testers Sales Quantity by Country (2021-2026) & (Units)

Table 165. Middle East & Africa Logic IC Testers Sales Quantity by Country (2027-2032) & (Units)

Table 166. Middle East & Africa Logic IC Testers Consumption Value by Country (2021-2026) & (USD Million)

Table 167. Middle East & Africa Logic IC Testers Consumption Value by Country (2027-2032) & (USD Million)

Table 168. Logic IC Testers Raw Material

Table 169. Key Manufacturers of Logic IC Testers Raw Materials

Table 170. Logic IC Testers Typical Distributors

Table 171. Logic IC Testers Typical Customers

List Of Figures

LIST OF FIGURES

- Figure 1. Logic IC Testers Picture
- Figure 2. Global Logic IC Testers Revenue by Type, (USD Million), 2021 & 2025 & 2032
- Figure 3. Global Logic IC Testers Revenue Market Share by Type in 2025
- Figure 4. 6-slot System Examples
- Figure 5. 12-slot System Examples
- Figure 6. 24-slot System Examples
- Figure 7. Others Examples
- Figure 8. Global Logic IC Testers Revenue by Test Speed, (USD Million), 2021 & 2025 & 2032
- Figure 9. Global Logic IC Testers Revenue Market Share by Test Speed in 2025
- Figure 10. Low Speed (1 GHz, DDR5/PCIe) Examples
- Figure 14. Global Logic IC Testers Revenue by Test Capability, (USD Million), 2021 & 2025 & 2032
- Figure 15. Global Logic IC Testers Revenue Market Share by Test Capability in 2025
- Figure 16. Functional Test Examples
- Figure 17. Parametric Test Examples
- Figure 18. Timing Test Examples
- Figure 19. Global Logic IC Testers Consumption Value by Application, (USD Million), 2021 & 2025 & 2032
- Figure 20. Global Logic IC Testers Revenue Market Share by Application in 2025
- Figure 21. IDMs Examples
- Figure 22. OSATs Examples
- Figure 23. Global Logic IC Testers Consumption Value, (USD Million): 2021 & 2025 & 2032
- Figure 24. Global Logic IC Testers Consumption Value and Forecast (2021-2032) & (USD Million)
- Figure 25. Global Logic IC Testers Sales Quantity (2021-2032) & (Units)
- Figure 26. Global Logic IC Testers Price (2021-2032) & (K US\$/Unit)
- Figure 27. Global Logic IC Testers Sales Quantity Market Share by Manufacturer in 2025
- Figure 28. Global Logic IC Testers Revenue Market Share by Manufacturer in 2025
- Figure 29. Producer Shipments of Logic IC Testers by Manufacturer Sales (\$MM) and Market Share (%): 2025
- Figure 30. Top 3 Logic IC Testers Manufacturer (Revenue) Market Share in 2025
- Figure 31. Top 6 Logic IC Testers Manufacturer (Revenue) Market Share in 2025

Figure 32. Global Logic IC Testers Sales Quantity Market Share by Region (2021-2032)

Figure 33. Global Logic IC Testers Consumption Value Market Share by Region (2021-2032)

Figure 34. North America Logic IC Testers Consumption Value (2021-2032) & (USD Million)

Figure 35. Europe Logic IC Testers Consumption Value (2021-2032) & (USD Million)

Figure 36. Asia-Pacific Logic IC Testers Consumption Value (2021-2032) & (USD Million)

Figure 37. South America Logic IC Testers Consumption Value (2021-2032) & (USD Million)

Figure 38. Middle East & Africa Logic IC Testers Consumption Value (2021-2032) & (USD Million)

Figure 39. Global Logic IC Testers Sales Quantity Market Share by Type (2021-2032)

Figure 40. Global Logic IC Testers Consumption Value Market Share by Type (2021-2032)

Figure 41. Global Logic IC Testers Average Price by Type (2021-2032) & (K US\$/Unit)

Figure 42. Global Logic IC Testers Sales Quantity Market Share by Application (2021-2032)

Figure 43. Global Logic IC Testers Revenue Market Share by Application (2021-2032)

Figure 44. Global Logic IC Testers Average Price by Application (2021-2032) & (K US\$/Unit)

Figure 45. North America Logic IC Testers Sales Quantity Market Share by Type (2021-2032)

Figure 46. North America Logic IC Testers Sales Quantity Market Share by Application (2021-2032)

Figure 47. North America Logic IC Testers Sales Quantity Market Share by Country (2021-2032)

Figure 48. North America Logic IC Testers Consumption Value Market Share by Country (2021-2032)

Figure 49. United States Logic IC Testers Consumption Value (2021-2032) & (USD Million)

Figure 50. Canada Logic IC Testers Consumption Value (2021-2032) & (USD Million)

Figure 51. Mexico Logic IC Testers Consumption Value (2021-2032) & (USD Million)

Figure 52. Europe Logic IC Testers Sales Quantity Market Share by Type (2021-2032)

Figure 53. Europe Logic IC Testers Sales Quantity Market Share by Application (2021-2032)

Figure 54. Europe Logic IC Testers Sales Quantity Market Share by Country (2021-2032)

Figure 55. Europe Logic IC Testers Consumption Value Market Share by Country

(2021-2032)

Figure 56. Germany Logic IC Testers Consumption Value (2021-2032) & (USD Million)

Figure 57. France Logic IC Testers Consumption Value (2021-2032) & (USD Million)

Figure 58. United Kingdom Logic IC Testers Consumption Value (2021-2032) & (USD Million)

Figure 59. Russia Logic IC Testers Consumption Value (2021-2032) & (USD Million)

Figure 60. Italy Logic IC Testers Consumption Value (2021-2032) & (USD Million)

Figure 61. Asia-Pacific Logic IC Testers Sales Quantity Market Share by Type (2021-2032)

Figure 62. Asia-Pacific Logic IC Testers Sales Quantity Market Share by Application (2021-2032)

Figure 63. Asia-Pacific Logic IC Testers Sales Quantity Market Share by Region (2021-2032)

Figure 64. Asia-Pacific Logic IC Testers Consumption Value Market Share by Region (2021-2032)

Figure 65. China Logic IC Testers Consumption Value (2021-2032) & (USD Million)

Figure 66. Japan Logic IC Testers Consumption Value (2021-2032) & (USD Million)

Figure 67. South Korea Logic IC Testers Consumption Value (2021-2032) & (USD Million)

Figure 68. India Logic IC Testers Consumption Value (2021-2032) & (USD Million)

Figure 69. Southeast Asia Logic IC Testers Consumption Value (2021-2032) & (USD Million)

Figure 70. Australia Logic IC Testers Consumption Value (2021-2032) & (USD Million)

Figure 71. South America Logic IC Testers Sales Quantity Market Share by Type (2021-2032)

Figure 72. South America Logic IC Testers Sales Quantity Market Share by Application (2021-2032)

Figure 73. South America Logic IC Testers Sales Quantity Market Share by Country (2021-2032)

Figure 74. South America Logic IC Testers Consumption Value Market Share by Country (2021-2032)

Figure 75. Brazil Logic IC Testers Consumption Value (2021-2032) & (USD Million)

Figure 76. Argentina Logic IC Testers Consumption Value (2021-2032) & (USD Million)

Figure 77. Middle East & Africa Logic IC Testers Sales Quantity Market Share by Type (2021-2032)

Figure 78. Middle East & Africa Logic IC Testers Sales Quantity Market Share by Application (2021-2032)

Figure 79. Middle East & Africa Logic IC Testers Sales Quantity Market Share by Country (2021-2032)

Figure 80. Middle East & Africa Logic IC Testers Consumption Value Market Share by Country (2021-2032)

Figure 81. Turkey Logic IC Testers Consumption Value (2021-2032) & (USD Million)

Figure 82. Egypt Logic IC Testers Consumption Value (2021-2032) & (USD Million)

Figure 83. Saudi Arabia Logic IC Testers Consumption Value (2021-2032) & (USD Million)

Figure 84. South Africa Logic IC Testers Consumption Value (2021-2032) & (USD Million)

Figure 85. Logic IC Testers Market Drivers

Figure 86. Logic IC Testers Market Restraints

Figure 87. Logic IC Testers Market Trends

Figure 88. Porters Five Forces Analysis

Figure 89. Manufacturing Cost Structure Analysis of Logic IC Testers in 2025

Figure 90. Manufacturing Process Analysis of Logic IC Testers

Figure 91. Logic IC Testers Industrial Chain

Figure 92. Sales Channel: Direct to End-User vs Distributors

Figure 93. Direct Channel Pros & Cons

Figure 94. Indirect Channel Pros & Cons

Figure 95. Methodology

Figure 96. Research Process and Data Source

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