

Boundary Scan Hardware Market Size and Forecast (2021 - 2034), Global and Regional Share, Trend, and Growth Opportunity Analysis Report Coverage: By Component (Controllers, I/O Modules, Accessories, and Other), Industry (Consumer Electronics, Automotive, IT and Telecom, Aerospace and Defense, Healthcare, and Others), and Geography (North America, Europe, Asia Pacific, Middle East & Africa, and South & Central America)

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Abstracts

The boundary scan hardware market size was valued at US\$ 728.57 million in 2025 and is expected to reach US\$ 1,512.75 million by 2034; it is estimated to record a CAGR of 8.5% during 2026–2034.

The boundary scan hardware market is segmented into five major regions-North America, Europe, Asia Pacific (APAC), Middle East & Africa (MEA) and South & Central America. North America is the second-largest contributor to the global Boundary Scan Hardware Market, followed by Europe

The boundary scan hardware market in North America is driven by high adoption of complex semiconductor devices, strong presence of aerospace and defense electronics, and rapid growth in AI, cloud computing, and high-performance computing hardware. Increasing PCB miniaturization in advanced systems such as autonomous vehicles, medical electronics, and 5G infrastructure is making physical test access difficult, boosting reliance on JTAG-based boundary scan solutions. The region also benefits from extensive research investment in FPGA, SoC, and chiplet-based

architectures, where boundary scan is critical for design validation and debugging. Additionally, strict reliability standards in defense and healthcare electronics and strong adoption of automated test equipment in smart manufacturing environments are reinforcing demand for efficient, noninvasive testing technologies.

The boundary scan hardware market in Europe is driven by strong demand from automotive electrification, industrial robotics, and precision engineering sectors. The shift toward electric mobility and advanced driver-assistance systems is increasing PCB complexity in automotive platforms, requiring enhanced fault detection capabilities. Europe's leadership in industrial automation and smart factory deployment is also accelerating integration of boundary scan tools into production lines for real-time diagnostics and quality assurance. In addition, strict compliance requirements under European safety and environmental regulations are driving manufacturers toward more reliable and traceable electronic testing methods. Growing investments in renewable energy systems and high-reliability aerospace electronics further support the adoption of advanced boundary scan solutions.

The boundary scan hardware market in Asia Pacific is primarily driven by its dominance in large-scale electronics manufacturing, semiconductor fabrication, and export-oriented PCB assembly. Rapid expansion of consumer electronics, smartphones, wearables, and IoT devices is increasing demand for high-throughput testing solutions capable of handling dense and compact board designs. Strong government support for domestic semiconductor ecosystems and advanced packaging technologies is accelerating the adoption of JTAG-based testing in design and production stages. Additionally, rising deployment of 5G networks, data centers, and EV manufacturing is increasing electronic system complexity, while cost-sensitive mass production environments are driving manufacturers toward automated, scalable boundary scan solutions to reduce defect rates and improve yield.

The boundary scan hardware market in Middle East and Africa is driven by increasing investments in telecommunications expansion, defense modernization, and large-scale infrastructure digitization. Growing adoption of smart city projects, particularly in Gulf countries, is increasing reliance on complex electronic control systems that require advanced testing methods. Expansion of 5G networks, data centers, and industrial automation in the energy and utilities sectors is further boosting demand for reliable PCB validation technologies. In addition, gradual diversification from oil-based economies toward technology-driven industries is encouraging the adoption of advanced electronics testing solutions. However, limited local semiconductor manufacturing continues to constrain faster market penetration.

The boundary scan hardware market in South and Central America is driven by growing electronics assembly activities, expansion of automotive manufacturing, and increasing adoption of telecommunications infrastructure upgrades. Countries in the region are gradually integrating into global supply chains, leading to higher use of advanced PCB designs that require efficient testing and debugging solutions. Expansion of industrial automation in mining, agriculture, and energy sectors is also increasing demand for reliable embedded electronics validation. Additionally, rising investments in digital connectivity, broadband expansion, and renewable energy projects are contributing to the need for cost-effective, automated testing methods such as boundary scan hardware to improve manufacturing efficiency and product reliability.

Corelis Inc., Teradyne Inc, Keysight Technologies Inc, Acculogic Inc, G?PEL electronic GmbH, JTAG Technologies, XJTAG Limited, Qmax Test Technologies, and Konrad GmbH are among the key boundary scan hardware market players that are profiled in this market study.

The overall boundary scan hardware market size has been derived using both primary and secondary sources. Exhaustive secondary research has been conducted using internal and external sources to obtain qualitative and quantitative information related to the boundary scan hardware market size. The process also helps obtain an overview and forecast of the market with respect to all the market segments. Also, multiple primary interviews have been conducted with industry participants to validate the data and gain analytical insights. This process includes industry experts such as VPs, business development managers, market intelligence managers, and national sales managers, along with external consultants such as valuation experts, research analysts, and key opinion leaders, specializing in boundary scan hardware market.

Reason to buy

Saves and reduces time required for identifying the market growth, size, leading players, and segments in the global Boundary Scan Hardware market.

Highlights key business priorities to assist companies in realigning their business strategies

Emphasizes key findings and recommendations that uncover emerging industry trends in the global Boundary Scan Hardware market, enabling stakeholders across the value chain to craft effective long-term strategies

Develop/modify business expansion plans by analyzing substantial growth prospects in mature and emerging markets

Scrutinizes in-depth global Boundary Scan Hardware market trends, along with factors driving the market, as well as those hindering it

Enhances the decision-making process by understanding the strategies that underpin commercial interest with respect to client products, segmentation, pricing, and distribution

Contents

1. EXECUTIVE SUMMARY

- 1.1 Analyst Market Outlook
- 1.2 Market Attractiveness

2. BOUNDARY SCAN HARDWARE MARKET LANDSCAPE

- 2.1 Overview
- 2.2 Value Chain Analysis
 - 2.2.1 Raw Materials / Components
 - 2.2.2 Manufacturing Process / Technology
 - 2.2.3 Distribution Landscape
 - 2.2.4 End User
 - 2.2.5 Level of Integration
- 2.3 Supply Chain Analysis
 - 2.3.1 List of Manufacturers/Suppliers
 - 2.3.2 List of Potential Customers (Upto 50)
- 2.4 Porter`s Five Force Analysis
- 2.5 PEST Analysis
- 2.6 Import–Export Analysis for Key Countries (As per the nearest HS Code)
 - 2.6.1 Import–Export Analysis for Key Countries
- 2.7 Impact of Artificial Intelligence (AI)
- 2.8 Product or Technology Roadmap
- 2.9 Sustainability and ESG Trends
- 2.10 Patent Analysis
- 2.11 Regulatory Framework

3. COMPETITIVE LANDSCAPE

- 3.1 Company Benchmarking by Key Players
- 3.2 Market Share Analysis, 2025 – By Key Players
- 3.3 Market Concentration

4. BOUNDARY SCAN HARDWARE MARKET – KEY INDUSTRY DYNAMICS

- 4.1 Market Drivers
 - 4.1.1 Integration of JTAG-Compatible Devices Across Semiconductor Ecosystems

- 4.1.2 Rising Complexity of High-Density PCB Designs
- 4.1.3 Adoption of Miniaturized Electronics
- 4.2 Market Restraints
 - 4.2.1 High Initial Investment Cost for Advanced Boundary Scan Hardware Systems
 - 4.2.2 Complexity Involved in Integrating Boundary Scan into Legacy Testing Environments
 - 4.2.3 Limited Awareness Among Small-Scale Manufacturers Regarding JTAG Capabilities
- 4.3 Market Opportunities
 - 4.3.1 Expansion of Automotive Electronics and ADAS Systems
 - 4.3.2 Increased Use of Boundary Scan in Medical Electronics and Diagnostic Devices
 - 4.3.3 Demand for Predictive Maintenance in Industrial Automation Systems
- 4.4 Future Trends
 - 4.4.1 Emergence of AI-driven Fault Analytics Integrated with Boundary Scan Platforms
 - 4.4.2 Development of Cloud-Connected Remote Debugging and Diagnostics Platforms
 - 4.4.3 Increased Integration of Boundary Scan with Real-Time Manufacturing Execution Systems
- 4.5 Impact of Drivers and Restraints

5. BOUNDARY SCAN HARDWARE MARKET – GLOBAL MARKET ANALYSIS

- 5.1 Boundary Scan Hardware Market Revenue (US\$ Million), 2021–2034
- 5.2 Boundary Scan Hardware Market Forecast and Analysis

6. BOUNDARY SCAN HARDWARE MARKET REVENUE ANALYSIS – COMPONENT

- 6.1 Boundary Scan Hardware Market Forecasts and Analysis by Component
 - 6.1.1 Controllers
 - 6.1.1.1 Overview
 - 6.1.1.2 Controllers: Boundary Scan Hardware Market – Revenue, 2021–2034 (US\$ Million)
 - 6.1.2 I or O Modules
 - 6.1.2.1 Overview
 - 6.1.2.2 I or O Modules: Boundary Scan Hardware Market – Revenue, 2021–2034 (US\$ Million)
 - 6.1.3 Accessories
 - 6.1.3.1 Overview
 - 6.1.3.2 Accessories: Boundary Scan Hardware Market – Revenue, 2021–2034 (US\$ Million)

6.1.4 Others

6.1.4.1 Overview

6.1.4.2 Others: Boundary Scan Hardware Market – Revenue, 2021–2034 (US\$ Million)

7. BOUNDARY SCAN HARDWARE MARKET REVENUE ANALYSIS – INDUSTRY

7.1 Boundary Scan Hardware Market Forecasts and Analysis by Industry

7.1.1 Consumer Electronics

7.1.1.1 Overview

7.1.1.2 Consumer Electronics: Boundary Scan Hardware Market – Revenue, 2021–2034 (US\$ Million)

7.1.2 Automotive

7.1.2.1 Overview

7.1.2.2 Automotive: Boundary Scan Hardware Market – Revenue, 2021–2034 (US\$ Million)

7.1.3 IT and Telecom

7.1.3.1 Overview

7.1.3.2 IT and Telecom: Boundary Scan Hardware Market – Revenue, 2021–2034 (US\$ Million)

7.1.4 Aerospace and Defense

7.1.4.1 Overview

7.1.4.2 Aerospace and Defense: Boundary Scan Hardware Market – Revenue, 2021–2034 (US\$ Million)

7.1.5 Healthcare

7.1.5.1 Overview

7.1.5.2 Healthcare: Boundary Scan Hardware Market – Revenue, 2021–2034 (US\$ Million)

7.1.6 Others

7.1.6.1 Overview

7.1.6.2 Others: Boundary Scan Hardware Market – Revenue, 2021–2034 (US\$ Million)

8. BOUNDARY SCAN HARDWARE MARKET – GEOGRAPHICAL ANALYSIS

8.1 North America

8.1.1 North America Boundary Scan Hardware Market Overview

8.1.2 North America: Boundary Scan Hardware Market Revenue and Forecasts, 2021–2034 (US\$ Million)

8.1.3 North America: Boundary Scan Hardware Market – By Segmentation

8.1.3.1 Component

8.1.3.2 Industry

8.1.4 North America: Boundary Scan Hardware Market Breakdown by Countries

8.1.4.1 United States Market

8.1.4.1.1 United States: Boundary Scan Hardware Market Revenue and Forecasts, 2021–2034 (US\$ Million)

8.1.4.1.2 United States: Boundary Scan Hardware Market – By Segmentation

8.1.4.1.2.1 Component

8.1.4.1.2.2 Industry

8.1.4.2 Canada Market

8.1.4.2.1 Canada: Boundary Scan Hardware Market Revenue and Forecasts, 2021–2034 (US\$ Million)

8.1.4.2.2 Canada: Boundary Scan Hardware Market – By Segmentation

8.1.4.2.2.1 Component

8.1.4.2.2.2 Industry

8.1.4.3 Mexico Market

8.1.4.3.1 Mexico: Boundary Scan Hardware Market Revenue and Forecasts, 2021–2034 (US\$ Million)

8.1.4.3.2 Mexico: Boundary Scan Hardware Market – By Segmentation

8.1.4.3.2.1 Component

8.1.4.3.2.2 Industry

8.2 Europe

8.2.1 Europe Boundary Scan Hardware Market Overview

8.2.2 Europe: Boundary Scan Hardware Market Revenue and Forecasts, 2021–2034 (US\$ Million)

8.2.3 Europe: Boundary Scan Hardware Market – By Segmentation

8.2.3.1 Component

8.2.3.2 Industry

8.2.4 Europe: Boundary Scan Hardware Market Breakdown by Countries

8.2.4.1 Germany Market

8.2.4.1.1 Germany: Boundary Scan Hardware Market Revenue and Forecasts, 2021–2034 (US\$ Million)

8.2.4.1.2 Germany: Boundary Scan Hardware Market – By Segmentation

8.2.4.1.2.1 Component

8.2.4.1.2.2 Industry

8.2.4.2 United Kingdom Market

8.2.4.2.1 United Kingdom: Boundary Scan Hardware Market Revenue and Forecasts, 2021–2034 (US\$ Million)

8.2.4.2.2 United Kingdom: Boundary Scan Hardware Market – By Segmentation

8.2.4.2.2.1 Component

8.2.4.2.2.2 Industry

8.2.4.3 France Market

8.2.4.3.1 France: Boundary Scan Hardware Market Revenue and Forecasts, 2021–2034 (US\$ Million)

8.2.4.3.2 France: Boundary Scan Hardware Market – By Segmentation

8.2.4.3.2.1 Component

8.2.4.3.2.2 Industry

8.2.4.4 Italy Market

8.2.4.4.1 Italy: Boundary Scan Hardware Market Revenue and Forecasts, 2021–2034 (US\$ Million)

8.2.4.4.2 Italy: Boundary Scan Hardware Market – By Segmentation

8.2.4.4.2.1 Component

8.2.4.4.2.2 Industry

8.2.4.5 Russia Market

8.2.4.5.1 Russia: Boundary Scan Hardware Market Revenue and Forecasts, 2021–2034 (US\$ Million)

8.2.4.5.2 Russia: Boundary Scan Hardware Market – By Segmentation

8.2.4.5.2.1 Component

8.2.4.5.2.2 Industry

8.2.4.6 Rest of Europe Market

8.2.4.6.1 Rest of Europe: Boundary Scan Hardware Market Revenue and Forecasts, 2021–2034 (US\$ Million)

8.2.4.6.2 Rest of Europe: Boundary Scan Hardware Market – By Segmentation

8.2.4.6.2.1 Component

8.2.4.6.2.2 Industry

8.3 Asia Pacific

8.3.1 Asia Pacific Boundary Scan Hardware Market Overview

8.3.2 Asia Pacific: Boundary Scan Hardware Market Revenue and Forecasts, 2021–2034 (US\$ Million)

8.3.3 Asia Pacific: Boundary Scan Hardware Market – By Segmentation

8.3.3.1 Component

8.3.3.2 Industry

8.3.4 Asia Pacific: Boundary Scan Hardware Market Breakdown by Countries

8.3.4.1 China Market

8.3.4.1.1 China: Boundary Scan Hardware Market Revenue and Forecasts, 2021–2034 (US\$ Million)

8.3.4.1.2 China: Boundary Scan Hardware Market – By Segmentation

- 8.3.4.1.2.1 Component
- 8.3.4.1.2.2 Industry
- 8.3.4.2 Japan Market
 - 8.3.4.2.1 Japan: Boundary Scan Hardware Market Revenue and Forecasts, 2021–2034 (US\$ Million)
 - 8.3.4.2.2 Japan: Boundary Scan Hardware Market – By Segmentation
 - 8.3.4.2.2.1 Component
 - 8.3.4.2.2.2 Industry
 - 8.3.4.3 South Korea Market
 - 8.3.4.3.1 South Korea: Boundary Scan Hardware Market Revenue and Forecasts, 2021–2034 (US\$ Million)
 - 8.3.4.3.2 South Korea: Boundary Scan Hardware Market – By Segmentation
 - 8.3.4.3.2.1 Component
 - 8.3.4.3.2.2 Industry
 - 8.3.4.4 India Market
 - 8.3.4.4.1 India: Boundary Scan Hardware Market Revenue and Forecasts, 2021–2034 (US\$ Million)
 - 8.3.4.4.2 India: Boundary Scan Hardware Market – By Segmentation
 - 8.3.4.4.2.1 Component
 - 8.3.4.4.2.2 Industry
 - 8.3.4.5 Australia Market
 - 8.3.4.5.1 Australia: Boundary Scan Hardware Market Revenue and Forecasts, 2021–2034 (US\$ Million)
 - 8.3.4.5.2 Australia: Boundary Scan Hardware Market – By Segmentation
 - 8.3.4.5.2.1 Component
 - 8.3.4.5.2.2 Industry
 - 8.3.4.6 Rest of Asia Pacific Market
 - 8.3.4.6.1 Rest of Asia Pacific: Boundary Scan Hardware Market Revenue and Forecasts, 2021–2034 (US\$ Million)
 - 8.3.4.6.2 Rest of Asia Pacific: Boundary Scan Hardware Market – By Segmentation
 - 8.3.4.6.2.1 Component
 - 8.3.4.6.2.2 Industry
 - 8.4 Middle East and Africa
 - 8.4.1 Middle East and Africa Boundary Scan Hardware Market Overview
 - 8.4.2 Middle East and Africa: Boundary Scan Hardware Market Revenue and Forecasts, 2021–2034 (US\$ Million)
 - 8.4.3 Middle East and Africa: Boundary Scan Hardware Market – By Segmentation
 - 8.4.3.1 Component
 - 8.4.3.2 Industry

8.4.4 Middle East and Africa: Boundary Scan Hardware Market Breakdown by Countries

8.4.4.1 United Arab Emirates Market

8.4.4.1.1 United Arab Emirates: Boundary Scan Hardware Market Revenue and Forecasts, 2021–2034 (US\$ Million)

8.4.4.1.2 United Arab Emirates: Boundary Scan Hardware Market – By Segmentation

8.4.4.1.2.1 Component

8.4.4.1.2.2 Industry

8.4.4.2 Saudi Arabia Market

8.4.4.2.1 Saudi Arabia: Boundary Scan Hardware Market Revenue and Forecasts, 2021–2034 (US\$ Million)

8.4.4.2.2 Saudi Arabia: Boundary Scan Hardware Market – By Segmentation

8.4.4.2.2.1 Component

8.4.4.2.2.2 Industry

8.4.4.3 South Africa Market

8.4.4.3.1 South Africa: Boundary Scan Hardware Market Revenue and Forecasts, 2021–2034 (US\$ Million)

8.4.4.3.2 South Africa: Boundary Scan Hardware Market – By Segmentation

8.4.4.3.2.1 Component

8.4.4.3.2.2 Industry

8.4.4.4 Rest of Middle East and Africa Market

8.4.4.4.1 Rest of Middle East and Africa: Boundary Scan Hardware Market Revenue and Forecasts, 2021–2034 (US\$ Million)

8.4.4.4.2 Rest of Middle East and Africa: Boundary Scan Hardware Market – By Segmentation

8.4.4.4.2.1 Component

8.4.4.4.2.2 Industry

8.5 South and Central America

8.5.1 South and Central America Boundary Scan Hardware Market Overview

8.5.2 South and Central America: Boundary Scan Hardware Market Revenue and Forecasts, 2021–2034 (US\$ Million)

8.5.3 South and Central America: Boundary Scan Hardware Market – By Segmentation

8.5.3.1 Component

8.5.3.2 Industry

8.5.4 South and Central America: Boundary Scan Hardware Market Breakdown by Countries

8.5.4.1 Brazil Market

8.5.4.1.1 Brazil: Boundary Scan Hardware Market Revenue and Forecasts,

2021–2034 (US\$ Million)

8.5.4.1.2 Brazil: Boundary Scan Hardware Market – By Segmentation

8.5.4.1.2.1 Component

8.5.4.1.2.2 Industry

8.5.4.2 Argentina Market

8.5.4.2.1 Argentina: Boundary Scan Hardware Market Revenue and Forecasts,

2021–2034 (US\$ Million)

8.5.4.2.2 Argentina: Boundary Scan Hardware Market – By Segmentation

8.5.4.2.2.1 Component

8.5.4.2.2.2 Industry

8.5.4.3 Rest of South and Central America Market

8.5.4.3.1 Rest of South and Central America: Boundary Scan Hardware Market

Revenue and Forecasts, 2021–2034 (US\$ Million)

8.5.4.3.2 Rest of South and Central America: Boundary Scan Hardware Market – By Segmentation

8.5.4.3.2.1 Component

8.5.4.3.2.2 Industry

9. BOUNDARY SCAN HARDWARE MARKET INDUSTRY LANDSCAPE

10. BOUNDARY SCAN HARDWARE MARKET – KEY COMPANY PROFILES

10.1 Corelis Inc.

10.1.1 Key Facts

10.1.2 Business Description

10.1.3 Products and Services

10.1.4 Financial Overview

10.1.5 SWOT Analysis

10.1.6 Key Developments

10.2 Teradyne Inc

10.2.1 Key Facts

10.2.2 Business Description

10.2.3 Products and Services

10.2.4 Financial Overview

10.2.5 SWOT Analysis

10.2.6 Key Developments

10.3 Keysight Technologies Inc

10.3.1 Key Facts

10.3.2 Business Description

- 10.3.3 Products and Services
- 10.3.4 Financial Overview
- 10.3.5 SWOT Analysis
- 10.3.6 Key Developments
- 10.4 Acculogic Inc
 - 10.4.1 Key Facts
 - 10.4.2 Business Description
 - 10.4.3 Products and Services
 - 10.4.4 Financial Overview
 - 10.4.5 SWOT Analysis
 - 10.4.6 Key Developments
- 10.5 G?PEL electronic GmbH
 - 10.5.1 Key Facts
 - 10.5.2 Business Description
 - 10.5.3 Products and Services
 - 10.5.4 Financial Overview
 - 10.5.5 SWOT Analysis
 - 10.5.6 Key Developments
- 10.6 JTAG Technologies
 - 10.6.1 Key Facts
 - 10.6.2 Business Description
 - 10.6.3 Products and Services
 - 10.6.4 Financial Overview
 - 10.6.5 SWOT Analysis
 - 10.6.6 Key Developments
- 10.7 XJTAG Limited
 - 10.7.1 Key Facts
 - 10.7.2 Business Description
 - 10.7.3 Products and Services
 - 10.7.4 Financial Overview
 - 10.7.5 SWOT Analysis
 - 10.7.6 Key Developments
- 10.8 Qmax Test Technologies
 - 10.8.1 Key Facts
 - 10.8.2 Business Description
 - 10.8.3 Products and Services
 - 10.8.4 Financial Overview
 - 10.8.5 SWOT Analysis
 - 10.8.6 Key Developments

10.9 Konrad GmbH

10.9.1 Key Facts

10.9.2 Business Description

10.9.3 Products and Services

10.9.4 Financial Overview

10.9.5 SWOT Analysis

10.9.6 Key Developments

11. APPENDIX

11.1 Glossary

11.2 Research Methodology and Approach

11.2.1 Secondary Research

11.2.2 Primary Research

11.2.3 Market Estimation Approach

11.2.3.1 Supply Side Analysis

11.2.3.2 Demand Side Analysis

11.2.4 Research Assumptions and Limitations

11.2.5 Currency Conversion

11.3 About The Insight Partners

11.4 Market Intelligence Cloud

List Of Tables

LIST OF TABLES

Table 1. List of Patents and Description

Table 2. List of Regulatory Bodies and Organizations

Table 3. Ease of Doing Business: Key Country Rankings

Table 4. Market Share Analysis, 2025 – By Key Players

Table 5. Boundary Scan Hardware Market – Revenue, 2021–2025 (US\$ Million)

Table 6. Boundary Scan Hardware Market – Revenue Forecast, 2026–2034 (US\$ Million)

Table 7. Boundary Scan Hardware Market – Revenue, 2021–2025 (US\$ Million) – by Component

Table 8. Boundary Scan Hardware Market – Revenue Forecast, 2026–2034 (US\$ Million) – by Component

Table 9. Boundary Scan Hardware Market – Revenue, 2021–2025 (US\$ Million) – by Industry

Table 10. Boundary Scan Hardware Market – Revenue Forecast, 2026–2034 (US\$ Million) – by Industry

Table 11. North America: Boundary Scan Hardware Market – Revenue, 2021–2025 (US\$ Million) – by Component

Table 12. North America: Boundary Scan Hardware Market – Revenue Forecast, 2026–2034 (US\$ Million) – by Component

Table 13. North America: Boundary Scan Hardware Market – Revenue, 2021–2025 (US\$ Million) – by Industry

Table 14. North America: Boundary Scan Hardware Market – Revenue Forecast, 2026–2034 (US\$ Million) – by Industry

Table 15. North America: Boundary Scan Hardware Market – Revenue, 2021–2025 (US\$ Million) – by Country

Table 16. North America: Boundary Scan Hardware Market – Revenue Forecast, 2026–2034 (US\$ Million) – by Country

Table 17. United States: Boundary Scan Hardware Market – Revenue, 2021–2025 (US\$ Million) – by Component

Table 18. United States: Boundary Scan Hardware Market – Revenue Forecast, 2026–2034 (US\$ Million) – by Component

Table 19. United States: Boundary Scan Hardware Market – Revenue, 2021–2025 (US\$ Million) – by Industry

Table 20. United States: Boundary Scan Hardware Market – Revenue Forecast,

2026–2034 (US\$ Million) – by Industry

Table 21. Canada: Boundary Scan Hardware Market – Revenue, 2021–2025 (US\$ Million) – by Component

Table 22. Canada: Boundary Scan Hardware Market – Revenue Forecast, 2026–2034 (US\$ Million) – by Component

Table 23. Canada: Boundary Scan Hardware Market – Revenue, 2021–2025 (US\$ Million) – by Industry

Table 24. Canada: Boundary Scan Hardware Market – Revenue Forecast, 2026–2034 (US\$ Million) – by Industry

Table 25. Mexico: Boundary Scan Hardware Market – Revenue, 2021–2025 (US\$ Million) – by Component

Table 26. Mexico: Boundary Scan Hardware Market – Revenue Forecast, 2026–2034 (US\$ Million) – by Component

Table 27. Mexico: Boundary Scan Hardware Market – Revenue, 2021–2025 (US\$ Million) – by Industry

Table 28. Mexico: Boundary Scan Hardware Market – Revenue Forecast, 2026–2034 (US\$ Million) – by Industry

Table 29. Europe: Boundary Scan Hardware Market – Revenue, 2021–2025 (US\$ Million) – by Component

Table 30. Europe: Boundary Scan Hardware Market – Revenue Forecast, 2026–2034 (US\$ Million) – by Component

Table 31. Europe: Boundary Scan Hardware Market – Revenue, 2021–2025 (US\$ Million) – by Industry

Table 32. Europe: Boundary Scan Hardware Market – Revenue Forecast, 2026–2034 (US\$ Million) – by Industry

Table 33. Europe: Boundary Scan Hardware Market – Revenue, 2021–2025 (US\$ Million) – by Country

Table 34. Europe: Boundary Scan Hardware Market – Revenue Forecast, 2026–2034 (US\$ Million) – by Country

Table 35. Germany: Boundary Scan Hardware Market – Revenue, 2021–2025 (US\$ Million) – by Component

Table 36. Germany: Boundary Scan Hardware Market – Revenue Forecast, 2026–2034 (US\$ Million) – by Component

Table 37. Germany: Boundary Scan Hardware Market – Revenue, 2021–2025 (US\$ Million) – by Industry

Table 38. Germany: Boundary Scan Hardware Market – Revenue Forecast, 2026–2034 (US\$ Million) – by Industry

Table 39. United Kingdom: Boundary Scan Hardware Market – Revenue, 2021–2025 (US\$ Million) – by Component

Table 40. United Kingdom: Boundary Scan Hardware Market – Revenue Forecast, 2026–2034 (US\$ Million) – by Component

Table 41. United Kingdom: Boundary Scan Hardware Market – Revenue, 2021–2025 (US\$ Million) – by Industry

Table 42. United Kingdom: Boundary Scan Hardware Market – Revenue Forecast, 2026–2034 (US\$ Million) – by Industry

Table 43. France: Boundary Scan Hardware Market – Revenue, 2021–2025 (US\$ Million) – by Component

Table 44. France: Boundary Scan Hardware Market – Revenue Forecast, 2026–2034 (US\$ Million) – by Component

Table 45. France: Boundary Scan Hardware Market – Revenue, 2021–2025 (US\$ Million) – by Industry

Table 46. France: Boundary Scan Hardware Market – Revenue Forecast, 2026–2034 (US\$ Million) – by Industry

Table 47. Italy: Boundary Scan Hardware Market – Revenue, 2021–2025 (US\$ Million) – by Component

Table 48. Italy: Boundary Scan Hardware Market – Revenue Forecast, 2026–2034 (US\$ Million) – by Component

Table 49. Italy: Boundary Scan Hardware Market – Revenue, 2021–2025 (US\$ Million) – by Industry

Table 50. Italy: Boundary Scan Hardware Market – Revenue Forecast, 2026–2034 (US\$ Million) – by Industry

Table 51. Russia: Boundary Scan Hardware Market – Revenue, 2021–2025 (US\$ Million) – by Component

Table 52. Russia: Boundary Scan Hardware Market – Revenue Forecast, 2026–2034 (US\$ Million) – by Component

Table 53. Russia: Boundary Scan Hardware Market – Revenue, 2021–2025 (US\$ Million) – by Industry

Table 54. Russia: Boundary Scan Hardware Market – Revenue Forecast, 2026–2034 (US\$ Million) – by Industry

Table 55. Rest of Europe: Boundary Scan Hardware Market – Revenue, 2021–2025 (US\$ Million) – by Component

Table 56. Rest of Europe: Boundary Scan Hardware Market – Revenue Forecast, 2026–2034 (US\$ Million) – by Component

Table 57. Rest of Europe: Boundary Scan Hardware Market – Revenue, 2021–2025 (US\$ Million) – by Industry

Table 58. Rest of Europe: Boundary Scan Hardware Market – Revenue Forecast, 2026–2034 (US\$ Million) – by Industry

Table 59. Asia Pacific: Boundary Scan Hardware Market – Revenue, 2021–2025 (US\$

Million) – by Component

Table 60. Asia Pacific: Boundary Scan Hardware Market – Revenue Forecast, 2026–2034 (US\$ Million) – by Component

Table 61. Asia Pacific: Boundary Scan Hardware Market – Revenue, 2021–2025 (US\$ Million) – by Industry

Table 62. Asia Pacific: Boundary Scan Hardware Market – Revenue Forecast, 2026–2034 (US\$ Million) – by Industry

Table 63. Asia Pacific: Boundary Scan Hardware Market – Revenue, 2021–2025 (US\$ Million) – by Country

Table 64. Asia Pacific: Boundary Scan Hardware Market – Revenue Forecast, 2026–2034 (US\$ Million) – by Country

Table 65. China: Boundary Scan Hardware Market – Revenue, 2021–2025 (US\$ Million) – by Component

Table 66. China: Boundary Scan Hardware Market – Revenue Forecast, 2026–2034 (US\$ Million) – by Component

Table 67. China: Boundary Scan Hardware Market – Revenue, 2021–2025 (US\$ Million) – by Industry

Table 68. China: Boundary Scan Hardware Market – Revenue Forecast, 2026–2034 (US\$ Million) – by Industry

Table 69. Japan: Boundary Scan Hardware Market – Revenue, 2021–2025 (US\$ Million) – by Component

Table 70. Japan: Boundary Scan Hardware Market – Revenue Forecast, 2026–2034 (US\$ Million) – by Component

Table 71. Japan: Boundary Scan Hardware Market – Revenue, 2021–2025 (US\$ Million) – by Industry

Table 72. Japan: Boundary Scan Hardware Market – Revenue Forecast, 2026–2034 (US\$ Million) – by Industry

Table 73. South Korea: Boundary Scan Hardware Market – Revenue, 2021–2025 (US\$ Million) – by Component

Table 74. South Korea: Boundary Scan Hardware Market – Revenue Forecast, 2026–2034 (US\$ Million) – by Component

Table 75. South Korea: Boundary Scan Hardware Market – Revenue, 2021–2025 (US\$ Million) – by Industry

Table 76. South Korea: Boundary Scan Hardware Market – Revenue Forecast, 2026–2034 (US\$ Million) – by Industry

Table 77. India: Boundary Scan Hardware Market – Revenue, 2021–2025 (US\$ Million) – by Component

Table 78. India: Boundary Scan Hardware Market – Revenue Forecast, 2026–2034 (US\$ Million) – by Component

Table 79. India: Boundary Scan Hardware Market – Revenue, 2021–2025 (US\$ Million)
– by Industry

Table 80. India: Boundary Scan Hardware Market – Revenue Forecast, 2026–2034
(US\$ Million) – by Industry

Table 81. Australia: Boundary Scan Hardware Market – Revenue, 2021–2025 (US\$
Million) – by Component

Table 82. Australia: Boundary Scan Hardware Market – Revenue Forecast, 2026–2034
(US\$ Million) – by Component

Table 83. Australia: Boundary Scan Hardware Market – Revenue, 2021–2025 (US\$
Million) – by Industry

Table 84. Australia: Boundary Scan Hardware Market – Revenue Forecast, 2026–2034
(US\$ Million) – by Industry

Table 85. Rest of Asia Pacific: Boundary Scan Hardware Market – Revenue,
2021–2025 (US\$ Million) – by Component

Table 86. Rest of Asia Pacific: Boundary Scan Hardware Market – Revenue Forecast,
2026–2034 (US\$ Million) – by Component

Table 87. Rest of Asia Pacific: Boundary Scan Hardware Market – Revenue,
2021–2025 (US\$ Million) – by Industry

Table 88. Rest of Asia Pacific: Boundary Scan Hardware Market – Revenue Forecast,
2026–2034 (US\$ Million) – by Industry

Table 89. Middle East and Africa: Boundary Scan Hardware Market – Revenue,
2021–2025 (US\$ Million) – by Component

Table 90. Middle East and Africa: Boundary Scan Hardware Market – Revenue
Forecast, 2026–2034 (US\$ Million) – by Component

Table 91. Middle East and Africa: Boundary Scan Hardware Market – Revenue,
2021–2025 (US\$ Million) – by Industry

Table 92. Middle East and Africa: Boundary Scan Hardware Market – Revenue
Forecast, 2026–2034 (US\$ Million) – by Industry

Table 93. Middle East and Africa: Boundary Scan Hardware Market – Revenue,
2021–2025 (US\$ Million) – by Country

Table 94. Middle East and Africa: Boundary Scan Hardware Market – Revenue
Forecast, 2026–2034 (US\$ Million) – by Country

Table 95. United Arab Emirates: Boundary Scan Hardware Market – Revenue,
2021–2025 (US\$ Million) – by Component

Table 96. United Arab Emirates: Boundary Scan Hardware Market – Revenue Forecast,
2026–2034 (US\$ Million) – by Component

Table 97. United Arab Emirates: Boundary Scan Hardware Market – Revenue,
2021–2025 (US\$ Million) – by Industry

Table 98. United Arab Emirates: Boundary Scan Hardware Market – Revenue Forecast,

2026–2034 (US\$ Million) – by Industry

Table 99. Saudi Arabia: Boundary Scan Hardware Market – Revenue, 2021–2025 (US\$ Million) – by Component

Table 100. Saudi Arabia: Boundary Scan Hardware Market – Revenue Forecast, 2026–2034 (US\$ Million) – by Component

Table 101. Saudi Arabia: Boundary Scan Hardware Market – Revenue, 2021–2025 (US\$ Million) – by Industry

Table 102. Saudi Arabia: Boundary Scan Hardware Market – Revenue Forecast, 2026–2034 (US\$ Million) – by Industry

Table 103. South Africa: Boundary Scan Hardware Market – Revenue, 2021–2025 (US\$ Million) – by Component

Table 104. South Africa: Boundary Scan Hardware Market – Revenue Forecast, 2026–2034 (US\$ Million) – by Component

Table 105. South Africa: Boundary Scan Hardware Market – Revenue, 2021–2025 (US\$ Million) – by Industry

Table 106. South Africa: Boundary Scan Hardware Market – Revenue Forecast, 2026–2034 (US\$ Million) – by Industry

Table 107. Rest of Middle East and Africa: Boundary Scan Hardware Market – Revenue, 2021–2025 (US\$ Million) – by Component

Table 108. Rest of Middle East and Africa: Boundary Scan Hardware Market – Revenue Forecast, 2026–2034 (US\$ Million) – by Component

Table 109. Rest of Middle East and Africa: Boundary Scan Hardware Market – Revenue, 2021–2025 (US\$ Million) – by Industry

Table 110. Rest of Middle East and Africa: Boundary Scan Hardware Market – Revenue Forecast, 2026–2034 (US\$ Million) – by Industry

Table 111. South and Central America: Boundary Scan Hardware Market – Revenue, 2021–2025 (US\$ Million) – by Component

Table 112. South and Central America: Boundary Scan Hardware Market – Revenue Forecast, 2026–2034 (US\$ Million) – by Component

Table 113. South and Central America: Boundary Scan Hardware Market – Revenue, 2021–2025 (US\$ Million) – by Industry

Table 114. South and Central America: Boundary Scan Hardware Market – Revenue Forecast, 2026–2034 (US\$ Million) – by Industry

Table 115. South and Central America: Boundary Scan Hardware Market – Revenue, 2021–2025 (US\$ Million) – by Country

Table 116. South and Central America: Boundary Scan Hardware Market – Revenue Forecast, 2026–2034 (US\$ Million) – by Country

Table 117. Brazil: Boundary Scan Hardware Market – Revenue, 2021–2025 (US\$ Million) – by Component

Table 118. Brazil: Boundary Scan Hardware Market – Revenue Forecast, 2026–2034 (US\$ Million) – by Component

Table 119. Brazil: Boundary Scan Hardware Market – Revenue, 2021–2025 (US\$ Million) – by Industry

Table 120. Brazil: Boundary Scan Hardware Market – Revenue Forecast, 2026–2034 (US\$ Million) – by Industry

Table 121. Argentina: Boundary Scan Hardware Market – Revenue, 2021–2025 (US\$ Million) – by Component

Table 122. Argentina: Boundary Scan Hardware Market – Revenue Forecast, 2026–2034 (US\$ Million) – by Component

Table 123. Argentina: Boundary Scan Hardware Market – Revenue, 2021–2025 (US\$ Million) – by Industry

Table 124. Argentina: Boundary Scan Hardware Market – Revenue Forecast, 2026–2034 (US\$ Million) – by Industry

Table 125. Rest of South and Central America: Boundary Scan Hardware Market – Revenue, 2021–2025 (US\$ Million) – by Component

Table 126. Rest of South and Central America: Boundary Scan Hardware Market – Revenue Forecast, 2026–2034 (US\$ Million) – by Component

Table 127. Rest of South and Central America: Boundary Scan Hardware Market – Revenue, 2021–2025 (US\$ Million) – by Industry

Table 128. Rest of South and Central America: Boundary Scan Hardware Market – Revenue Forecast, 2026–2034 (US\$ Million) – by Industry

Table 129. Glossary – Boundary Scan Hardware Market

List Of Figures

LIST OF FIGURES

- Figure 1. Boundary Scan Hardware Market Segmentation
- Figure 2. Boundary Scan Hardware Market – Value Chain Analysis
- Figure 3. Porter's Five Forces Analysis
- Figure 4. Pest Analysis
- Figure 5. Boundary Scan Hardware Market – Key Industry Dynamics
- Figure 6. Impact Analysis of Drivers and Restraints
- Figure 7. Boundary Scan Hardware Market Revenue (US\$ Million), 2021–2034
- Figure 8. Boundary Scan Hardware Market Share (%) – by Component (2025 and 2034)
- Figure 9. Controllers: Boundary Scan Hardware Market – Revenue and Forecasts, 2021–2034 (US\$ Million)
- Figure 10. I or O Modules: Boundary Scan Hardware Market – Revenue and Forecasts, 2021–2034 (US\$ Million)
- Figure 11. Accessories: Boundary Scan Hardware Market – Revenue and Forecasts, 2021–2034 (US\$ Million)
- Figure 12. Others: Boundary Scan Hardware Market – Revenue and Forecasts, 2021–2034 (US\$ Million)
- Figure 13. Boundary Scan Hardware Market Share (%) – by Industry (2025 and 2034)
- Figure 14. Consumer Electronics: Boundary Scan Hardware Market – Revenue and Forecasts, 2021–2034 (US\$ Million)
- Figure 15. Automotive: Boundary Scan Hardware Market – Revenue and Forecasts, 2021–2034 (US\$ Million)
- Figure 16. IT and Telecom: Boundary Scan Hardware Market – Revenue and Forecasts, 2021–2034 (US\$ Million)
- Figure 17. Aerospace and Defense: Boundary Scan Hardware Market – Revenue and Forecasts, 2021–2034 (US\$ Million)
- Figure 18. Healthcare: Boundary Scan Hardware Market – Revenue and Forecasts, 2021–2034 (US\$ Million)
- Figure 19. Others: Boundary Scan Hardware Market – Revenue and Forecasts, 2021–2034 (US\$ Million)
- Figure 20. Boundary Scan Hardware Market Breakdown by Geography, 2025 and 2034
- Figure 21. North America: Boundary Scan Hardware Market Revenue and Forecasts, 2021–2034 (US\$ Million)
- Figure 22. North America: Boundary Scan Hardware Market Breakdown by Key Countries, 2025 and 2034 (%)

Figure 23. United States: Boundary Scan Hardware Market Revenue and Forecasts, 2021–2034 (US\$ Million)

Figure 24. Canada: Boundary Scan Hardware Market Revenue and Forecasts, 2021–2034 (US\$ Million)

Figure 25. Mexico: Boundary Scan Hardware Market Revenue and Forecasts, 2021–2034 (US\$ Million)

Figure 26. Europe: Boundary Scan Hardware Market Revenue and Forecasts, 2021–2034 (US\$ Million)

Figure 27. Europe: Boundary Scan Hardware Market Breakdown by Key Countries, 2025 and 2034 (%)

Figure 28. Germany: Boundary Scan Hardware Market Revenue and Forecasts, 2021–2034 (US\$ Million)

Figure 29. United Kingdom: Boundary Scan Hardware Market Revenue and Forecasts, 2021–2034 (US\$ Million)

Figure 30. France: Boundary Scan Hardware Market Revenue and Forecasts, 2021–2034 (US\$ Million)

Figure 31. Italy: Boundary Scan Hardware Market Revenue and Forecasts, 2021–2034 (US\$ Million)

Figure 32. Russia: Boundary Scan Hardware Market Revenue and Forecasts, 2021–2034 (US\$ Million)

Figure 33. Rest of Europe: Boundary Scan Hardware Market Revenue and Forecasts, 2021–2034 (US\$ Million)

Figure 34. Asia Pacific: Boundary Scan Hardware Market Revenue and Forecasts, 2021–2034 (US\$ Million)

Figure 35. Asia Pacific: Boundary Scan Hardware Market Breakdown by Key Countries, 2025 and 2034 (%)

Figure 36. China: Boundary Scan Hardware Market Revenue and Forecasts, 2021–2034 (US\$ Million)

Figure 37. Japan: Boundary Scan Hardware Market Revenue and Forecasts, 2021–2034 (US\$ Million)

Figure 38. South Korea: Boundary Scan Hardware Market Revenue and Forecasts, 2021–2034 (US\$ Million)

Figure 39. India: Boundary Scan Hardware Market Revenue and Forecasts, 2021–2034 (US\$ Million)

Figure 40. Australia: Boundary Scan Hardware Market Revenue and Forecasts, 2021–2034 (US\$ Million)

Figure 41. Rest of Asia Pacific: Boundary Scan Hardware Market Revenue and Forecasts, 2021–2034 (US\$ Million)

Figure 42. Middle East and Africa: Boundary Scan Hardware Market Revenue and

Forecasts, 2021–2034 (US\$ Million)

Figure 43. Middle East and Africa: Boundary Scan Hardware Market Breakdown by Key Countries, 2025 and 2034 (%)

Figure 44. United Arab Emirates: Boundary Scan Hardware Market Revenue and Forecasts, 2021–2034 (US\$ Million)

Figure 45. Saudi Arabia: Boundary Scan Hardware Market Revenue and Forecasts, 2021–2034 (US\$ Million)

Figure 46. South Africa: Boundary Scan Hardware Market Revenue and Forecasts, 2021–2034 (US\$ Million)

Figure 47. Rest of Middle East and Africa: Boundary Scan Hardware Market Revenue and Forecasts, 2021–2034 (US\$ Million)

Figure 48. South and Central America: Boundary Scan Hardware Market Revenue and Forecasts, 2021–2034 (US\$ Million)

Figure 49. South and Central America: Boundary Scan Hardware Market Breakdown by Key Countries, 2025 and 2034 (%)

Figure 50. Brazil: Boundary Scan Hardware Market Revenue and Forecasts, 2021–2034 (US\$ Million)

Figure 51. Argentina: Boundary Scan Hardware Market Revenue and Forecasts, 2021–2034 (US\$ Million)

Figure 52. Rest of South and Central America: Boundary Scan Hardware Market Revenue and Forecasts, 2021–2034 (US\$ Million)

Figure 53. Bottom–Up Approach and Top–Down Approach

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