

Modular Test Equipment Market - Global Industry Size, Share, Trends, Opportunity, and Forecast Segmented by Type (PCI extensions for Instrumentation, VME extensions for Instrumentation, Advanced TCA Extensions for Instrumentation & Test, Others), End-user Industry (Communication, Aerospace and Defense, Automotive and Transportation, Electronics), By Region, and By Competition 2019-2029

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Abstracts

Global Modular Test Equipment Market was valued at USD 1.83 billion in 2023 and is anticipated to project robust growth in the forecast period with a CAGR of 8.01% through 2029. The rising number of connected devices and increasing companies' attention towards quality improvements and end-to-end test solutions are expected to drive market growth over the studied period.

In modular instrumentation systems, GHz PC processors analyze the data and make measurements using the software. The result is measurements at 10 to 100 times the throughput of a test system built solely on traditional instruments, which use built-in vendor-defined firmware and application-specific processors.

The market for modular testing is witnessing various strategic investments made by national and international players to remain competitive. For instance, in October 2022, Omega Laboratories, a provider of laboratory testing solutions, acquired Acumium to enhance its ability to provide risk mitigation while providing more timely results for faster clinical, court, and employment decisions. Further, in September 2022, inTEST Corporation, a supplier of innovative test and process solutions for manufacturing and

testing, announced to feature companies of its solutions for electric vehicles, OEMs, EV battery manufacturers, and other battery technologies at the Battery Show North America.

Key Market Drivers

The global modular test equipment market is experiencing robust growth driven by several key factors that reflect the dynamic landscape of the electronics and telecommunications industries. These market drivers are shaping the demand for modular test solutions, contributing to their increasing adoption across various sectors. One of the primary drivers is the escalating demand for electronics and communication devices. With the proliferation of smartphones, tablets, smart appliances, and other electronic gadgets, there is a heightened emphasis on ensuring the quality and reliability of these products. Modular test equipment offers a versatile and adaptable solution for manufacturers to conduct comprehensive testing of diverse electronic components. This demand is further amplified by consumers' expectations for high-performance and feature-rich devices, necessitating advanced testing capabilities.

Technological advancements play a pivotal role in propelling the modular test equipment market forward. The relentless pace of innovation in the electronics industry results in the continuous development of more complex and sophisticated electronic components. Traditional fixed-function test equipment may struggle to keep up with these advancements, making modular solutions increasingly attractive. The modular nature of the equipment allows for easy upgrades and adaptations to accommodate the evolving testing requirements of emerging technologies. As product designs become more intricate, there is a rising need for flexible testing solutions. The complexity of electronic devices, coupled with the integration of various technologies, requires testing equipment that can address diverse testing scenarios. Modular test equipment provides this flexibility, allowing manufacturers to configure and customize their testing setups based on specific product requirements. This adaptability is crucial in the fast-paced world of electronics, where time-to-market is a critical factor.

Cost-efficiency remains a significant driver for the adoption of modular test equipment. The modular approach allows companies to reuse common components across different testing setups, reducing the overall cost of testing solutions. Traditional fixed-function test equipment may require significant investment for each specific testing requirement, whereas modular solutions offer a more economical alternative by allowing the interchangeability of modules. The need for faster time-to-market is a constant pressure on manufacturers, especially in industries with rapid product cycles. Modular

test equipment plays a pivotal role in expediting testing processes, enabling quicker product development and deployment. The modular architecture facilitates parallel testing of multiple components, reducing testing time and accelerating the overall product development lifecycle.

The expansion of wireless communication technologies, particularly the rollout of 5G networks, is driving the demand for advanced testing solutions. Modular test equipment can effectively validate the performance, reliability, and interoperability of these complex communication systems. The ability to configure modular setups to mimic real-world scenarios is crucial in ensuring the seamless integration of wireless technologies. The Internet of Things (IoT) is another key driver influencing the modular test equipment market. The proliferation of interconnected devices across various industries requires testing solutions that can address the diverse and unique requirements of IoT devices. Modular test equipment, with its adaptability and scalability, proves instrumental in testing the functionality and communication capabilities of IoT devices.

Government regulations and industry standards are compelling manufacturers to adhere to stringent testing procedures. Modular test equipment can be configured to meet specific standards, ensuring compliance with regulatory requirements. This flexibility is particularly valuable in industries where adherence to standards is crucial for product certification and market acceptance. In conclusion, the global modular test equipment market is experiencing significant growth driven by the increasing demand for electronics, rapid technological advancements, product complexity, cost-efficiency considerations, and the need for faster time-to-market. Additionally, the expansion of wireless communication technologies, the rise of IoT, and the importance of regulatory compliance further contribute to the adoption of modular test solutions across diverse industries. As technology continues to evolve, the modular test equipment market is poised to play a crucial role in ensuring the quality and reliability of the next generation of electronic devices and communication systems.

Key Market Challenges

While the global modular test equipment market is experiencing growth, it also faces certain challenges that impact its dynamics. Understanding these challenges is crucial for businesses operating in this market to devise effective strategies and solutions. Here are key market challenges affecting the global modular test equipment market, Initial Investment Costs: The upfront costs associated with acquiring modular test equipment can be relatively high. While modular solutions offer long-term cost savings through adaptability and scalability, some businesses may find the initial investment challenging,

particularly smaller enterprises with budget constraints. Convincing stakeholders of the long-term benefits is crucial for widespread adoption.

Integration Issues: Integrating modular test equipment seamlessly into existing testing environments can be challenging. Compatibility issues may arise when integrating modules from different manufacturers or when trying to integrate with legacy systems. Ensuring interoperability and smooth integration with other testing tools and platforms is crucial to maximize the efficiency of modular test solutions.

Complexity in Configuration and Calibration: The modular nature of the equipment, while offering flexibility, can introduce complexity in terms of configuration and calibration. Properly configuring and calibrating a modular test setup requires expertise, and organizations may face challenges in ensuring accuracy and repeatability across different configurations. This complexity may hinder the widespread adoption of modular solutions.

Limited Standardization: Unlike traditional fixed-function test equipment, modular solutions lack standardization across the industry. The absence of standardized interfaces and communication protocols between modules from different manufacturers can result in interoperability challenges. Standardization efforts are essential to enhance compatibility and facilitate the seamless interchangeability of modules.

Education and Training Requirements: The modular test equipment market requires skilled personnel who can understand the complexities of configuring and utilizing modular setups effectively. Training existing staff or hiring individuals with the necessary expertise can be time-consuming and costly. Addressing the skills gap is essential to maximize the benefits of modular test equipment.

Perceived Complexity and Resistance to Change: Some organizations may perceive modular test solutions as more complex than traditional fixed-function equipment. Resistance to change within established testing processes can slow down the adoption of modular solutions. Educating stakeholders about the advantages and providing support during the transition phase is crucial to overcoming this challenge.

Scalability Concerns: While modular test equipment is designed to be scalable, businesses may face challenges in scaling their testing setups efficiently. As testing requirements evolve, ensuring that modular solutions can seamlessly scale up or down without compromising performance or introducing bottlenecks is a critical consideration.

Lack of Industry Awareness: The modular test equipment market may face challenges related to awareness within certain industries. Some businesses might not be fully

aware of the advantages offered by modular solutions or may not perceive them as a necessary investment. Marketing efforts and industry education are essential to increase awareness and promote the benefits of modular testing. **Security and Data Integrity Concerns:** With the increasing complexity of testing setups, there is a heightened focus on data security and integrity. Ensuring the confidentiality and integrity of test data becomes more challenging in modular environments. Implementing robust security measures and encryption protocols is crucial to address these concerns.

Lifecycle Management: Managing the lifecycle of modular test equipment, including updates, maintenance, and eventual replacements, can be challenging. Ensuring that modules remain compatible with evolving technologies and standards over the long term is essential to protect the investment made by organizations. In conclusion, while the global modular test equipment market presents significant opportunities, it also faces challenges related to initial investment costs, integration issues, complexity in configuration and calibration, limited standardization, education and training requirements, resistance to change, scalability concerns, lack of industry awareness, and security and data integrity concerns. Addressing these challenges will be crucial for the sustained growth and widespread adoption of modular test solutions across various industries. As the market evolves, industry players will need to collaborate, standardize, and innovate to overcome these challenges and unlock the full potential of modular testing.

Key Market Trends

The global modular test equipment market is characterized by several key trends that are shaping its trajectory and influencing the adoption of modular testing solutions across various industries. Understanding these trends is crucial for businesses to stay competitive and align their strategies with the evolving market dynamics. Here are some of the key market trends in the global modular test equipment market, **Rapid Technological Advancements:** The modular test equipment market is witnessing a continuous influx of technological advancements. As electronic components become more sophisticated, the need for advanced testing solutions grows. Modular test equipment providers are integrating cutting-edge technologies such as artificial intelligence (AI), machine learning (ML), and advanced analytics to enhance testing capabilities, improve accuracy, and expedite the identification of defects.

5G Technology and IoT Integration: The rollout of 5G networks and the increasing adoption of IoT devices are driving demand for modular test equipment with capabilities to validate the performance and reliability of these technologies. As 5G infrastructure

expands globally, modular testing solutions are being leveraged to ensure the seamless integration and optimal functioning of 5G-enabled devices and networks. **Emphasis on Industry 4.0 and Smart Manufacturing:** Industry 4.0 initiatives and the move towards smart manufacturing are influencing the adoption of modular test solutions. The interconnected and data-driven nature of smart factories requires flexible and adaptable testing setups. Modular test equipment, with its ability to configure and scale based on diverse testing needs, aligns well with the principles of Industry 4.0, enabling efficient and intelligent manufacturing processes.

Increased Focus on Energy Efficiency: With a growing emphasis on sustainability and energy efficiency, there is a trend towards incorporating energy consumption testing within modular test setups. Manufacturers are utilizing modular test equipment to assess and optimize the energy efficiency of electronic devices, aligning with global initiatives for greener technologies.

Integration of Cloud-Based Solutions: The integration of cloud-based solutions is emerging as a notable trend in the modular test equipment market. Cloud-based platforms enable remote monitoring, control, and collaboration, allowing users to access and analyze test data from anywhere. This trend aligns with the broader shift towards cloud-based technologies in the electronics and testing industries.

Focus on User-Friendly Interfaces: User-friendly interfaces and intuitive software platforms are becoming increasingly important in modular test equipment. Manufacturers are investing in the development of interfaces that simplify the configuration and operation of modular setups, reducing the learning curve for users and enhancing overall usability. **Increased Customization Capabilities:** Modular test equipment offers enhanced customization capabilities, allowing users to tailor their testing setups to specific requirements. This trend is particularly significant in industries with unique testing needs, such as aerospace, automotive, and telecommunications, where customized testing solutions are essential.

Collaborative Ecosystems and Partnerships: Collaboration and partnerships between modular test equipment providers and other industry players are on the rise. This includes collaborations with semiconductor manufacturers, software developers, and end-users. Such partnerships aim to create synergies, enhance interoperability, and drive innovation within the modular testing ecosystem. In conclusion, the global modular test equipment market is characterized by trends such as rapid technological advancements, the impact of 5G and IoT, the adoption of Industry 4.0 principles, a focus on energy efficiency, advancements in modular instrumentation, the popularity of

software-defined instruments, integration of cloud-based solutions, user-friendly interfaces, customization capabilities, and collaborative ecosystems. As the market continues to evolve, businesses in this space will need to stay agile, embrace innovation, and adapt their offerings to meet the changing demands of industries reliant on efficient and adaptable testing solutions.

Segmental Insights

End User Industry Insights

Automotive and Transportation segment will dominate the market in the forecast period. The automotive industry has one of the most challenging electronic testing requirements, which demands reliable testing to verify and test controller designs. Modular test equipment provides high reliability and high operational predictability in testing.

As the industry is increasing, vendors are launching innovations regularly to remain competitive. For instance, in February 2021, Keysight Technologies introduced a parallel board test system, the i7090, to test automotive products. The i7090 supports up to twenty cores with PXI-based in-circuit test capability. Further, in June 2022, the company announced its participation at the Automotive Testing Expo, an international expo for every aspect of automotive testing, development, and validation technologies. The company will demonstrate solutions that enable innovators to push the boundaries of engineering by quickly solving design, test, and validation challenges to create the best autonomous and electric vehicle experiences.

Regional Insights

Asia Pacific emerged as the dominating region in 2023, holding the largest market share. The Asia Pacific is one of the significant investors and adopters in the studied market owing to growing investment in industrial sectors and industrial automation technologies. The growing companies' attention to quality improvements and end-to-end test solutions further strengthens the market growth.

The region is witnessing various developments by the vendors. For instance, in August 2022, Palomar Technologies expanded its innovation center in Singapore to meet the demand in Southeast Asia for process development and assembly and testing for advanced semiconductor new product introductions. Furthermore, in April 2022, Keysight Technologies announced its collaboration with Singapore's Quantum

Engineering Program (QEP) to accelerate research, development, and education in quantum technologies. Such developments will further fuel the demand for modular test equipment. In June 2022, Advantest Corporation, a semiconductor test equipment supplier, announced the acquisition of CREA. The acquisition of CREA will expand the company's test and measurement solutions within the evolving semiconductor value chain to meet a broader range of customer needs.

Key Market Players

Advantest Corporation

Teradyne, Inc.

National Instruments

Chroma Ate

Cohu Inc.

Astronics Corporation

Star Technologies

Roos Instruments

Marvin Test Solutions

Omron Corporation

Report Scope:

In this report, the Global Modular Test Equipment Market has been segmented into the following categories, in addition to the industry trends which have also been detailed below:

Modular Test Equipment Market, By Type:

PCI extensions for Instrumentation

VME extensions for Instrumentation

Advanced TCA Extensions for Instrumentation & Test

Others

Modular Test Equipment Market, By End User Industry:

Communication

Aerospace and Defence

Automotive and Transportation

Consumer Electronics

Other

Modular Test Equipment Market, By Region:

North America

United States

Canada

Mexico

Europe

France

United Kingdom

Italy

Germany

Spain

Netherlands

Belgium

Asia-Pacific

China

India

Japan

Australia

South Korea

Thailand

Malaysia

South America

Brazil

Argentina

Colombia

Chile

Middle East & Africa

South Africa

Saudi Arabia

UAE

Turkey

Competitive Landscape

Company Profiles: Detailed analysis of the major companies presents in the Global Modular Test Equipment Market.

Available Customizations:

Global Modular Test Equipment Market report with the given market data, Tech Sci Research offers customizations according to a company's specific needs. The following customization options are available for the report:

Company Information

Detailed analysis and profiling of additional market players (up to five).

Contents

- 1. Product Overview
 - 1.1. Market Definition
 - 1.2. Scope of the Market
 - 1.2.1. Markets Covered
 - 1.2.2. Years Considered for Study
 - 1.2.3. Key Market Segmentations

2. RESEARCH METHODOLOGY

- 2.1. Objective of the Study
- 2.2. Baseline Methodology
- 2.3. Formulation of the Scope
- 2.4. Assumptions and Limitations
- 2.5. Sources of Research
 - 2.5.1. Secondary Research
 - 2.5.2. Primary Research
- 2.6. Approach for the Market Study
 - 2.6.1. The Bottom-Up Approach
 - 2.6.2. The Top-Down Approach
- 2.7. Methodology Followed for Calculation of Market Size & Market Shares
- 2.8. Forecasting Methodology
 - 2.8.1. Data Triangulation & Validation

3. EXECUTIVE SUMMARY

4. IMPACT OF COVID-19 ON GLOBAL MODULAR TEST EQUIPMENT MARKET

5. VOICE OF CUSTOMER

6. GLOBAL MODULAR TEST EQUIPMENT MARKET OVERVIEW

7. GLOBAL MODULAR TEST EQUIPMENT MARKET OUTLOOK

- 7.1. Market Size & Forecast
 - 7.1.1. By Value
- 7.2. Market Share & Forecast
 - 7.2.1. By Type (PCI extensions for Instrumentation, VME extensions for

Instrumentation, Advanced TCA Extensions for Instrumentation and Test, Others)

7.2.2.By End-user Industry (Communication, Aerospace and Defense, Automotive and Transportation, Electronics)

7.2.3.By Region

7.3. By Company (2023)

7.4. Market Map

8. NORTH AMERICA MODULAR TEST EQUIPMENT MARKET OUTLOOK

8.1. Market Size & Forecast

8.1.1.By Value

8.2. Market Share & Forecast

8.2.1.By Type

8.2.2.By End-User Industry

8.2.3.By Country

8.3. North America: Country Analysis

8.3.1.United States Modular Test Equipment Market Outlook

8.3.1.1. Market Size & Forecast

8.3.1.1.1. By Value

8.3.1.2. Market Share & Forecast

8.3.1.2.1. By Type

8.3.1.2.2. By End-User Industry

8.3.2.Canada Modular Test Equipment Market Outlook

8.3.2.1. Market Size & Forecast

8.3.2.1.1. By Value

8.3.2.2. Market Share & Forecast

8.3.2.2.1. By Type

8.3.2.2.2. By End-User Industry

8.3.3.Mexico Modular Test Equipment Market Outlook

8.3.3.1. Market Size & Forecast

8.3.3.1.1. By Value

8.3.3.2. Market Share & Forecast

8.3.3.2.1. By Type

8.3.3.2.2. By End-User Industry

9. EUROPE MODULAR TEST EQUIPMENT MARKET OUTLOOK

9.1. Market Size & Forecast

9.1.1.By Value

9.2. Market Share & Forecast

9.2.1. By Type

9.2.2. By End-User Industry

9.2.3. By Country

9.3. Europe: Country Analysis

9.3.1. Germany Modular Test Equipment Market Outlook

9.3.1.1. Market Size & Forecast

9.3.1.1.1. By Value

9.3.1.2. Market Share & Forecast

9.3.1.2.1. By Type

9.3.1.2.2. By End-User Industry

9.3.2. France Modular Test Equipment Market Outlook

9.3.2.1. Market Size & Forecast

9.3.2.1.1. By Value

9.3.2.2. Market Share & Forecast

9.3.2.2.1. By Type

9.3.2.2.2. By End-User Industry

9.3.3. United Kingdom Modular Test Equipment Market Outlook

9.3.3.1. Market Size & Forecast

9.3.3.1.1. By Value

9.3.3.2. Market Share & Forecast

9.3.3.2.1. By Type

9.3.3.2.2. By End-User Industry

9.3.4. Italy Modular Test Equipment Market Outlook

9.3.4.1. Market Size & Forecast

9.3.4.1.1. By Value

9.3.4.2. Market Share & Forecast

9.3.4.2.1. By Type

9.3.4.2.2. By End-User Industry

9.3.5. Spain Modular Test Equipment Market Outlook

9.3.5.1. Market Size & Forecast

9.3.5.1.1. By Value

9.3.5.2. Market Share & Forecast

9.3.5.2.1. By Type

9.3.5.2.2. By End-User Industry

9.3.6. Netherlands Modular Test Equipment Market Outlook

9.3.6.1. Market Size & Forecast

9.3.6.1.1. By Value

9.3.6.2. Market Share & Forecast

- 9.3.6.2.1. By Type
- 9.3.6.2.2. By End-User Industry
- 9.3.7. Belgium Modular Test Equipment Market Outlook
 - 9.3.7.1. Market Size & Forecast
 - 9.3.7.1.1. By Value
 - 9.3.7.2. Market Share & Forecast
 - 9.3.7.2.1. By Type
 - 9.3.7.2.2. By End-User Industry

10. SOUTH AMERICA MODULAR TEST EQUIPMENT MARKET OUTLOOK

- 10.1. Market Size & Forecast
 - 10.1.1. By Value
- 10.2. Market Share & Forecast
 - 10.2.1. By Type
 - 10.2.2. By End-User Industry
 - 10.2.3. By Country
- 10.3. South America: Country Analysis
 - 10.3.1. Brazil Modular Test Equipment Market Outlook
 - 10.3.1.1. Market Size & Forecast
 - 10.3.1.1.1. By Value
 - 10.3.1.2. Market Share & Forecast
 - 10.3.1.2.1. By Type
 - 10.3.1.2.2. By End-User Industry
 - 10.3.2. Colombia Modular Test Equipment Market Outlook
 - 10.3.2.1. Market Size & Forecast
 - 10.3.2.1.1. By Value
 - 10.3.2.2. Market Share & Forecast
 - 10.3.2.2.1. By Type
 - 10.3.2.2.2. By End-User Industry
 - 10.3.3. Argentina Modular Test Equipment Market Outlook
 - 10.3.3.1. Market Size & Forecast
 - 10.3.3.1.1. By Value
 - 10.3.3.2. Market Share & Forecast
 - 10.3.3.2.1. By Type
 - 10.3.3.2.2. By End-User Industry
 - 10.3.4. Chile Modular Test Equipment Market Outlook
 - 10.3.4.1. Market Size & Forecast
 - 10.3.4.1.1. By Value

- 10.3.4.2. Market Share & Forecast
 - 10.3.4.2.1. By Type
 - 10.3.4.2.2. By End-User Industry

11. MIDDLE EAST & AFRICA MODULAR TEST EQUIPMENT MARKET OUTLOOK

- 11.1. Market Size & Forecast
 - 11.1.1. By Value
- 11.2. Market Share & Forecast
 - 11.2.1. By Type
 - 11.2.2. By End-User Industry
 - 11.2.3. By Country
- 11.3. Middle East & Africa: Country Analysis
 - 11.3.1. Saudi Arabia Modular Test Equipment Market Outlook
 - 11.3.1.1. Market Size & Forecast
 - 11.3.1.1.1. By Value
 - 11.3.1.2. Market Share & Forecast
 - 11.3.1.2.1. By Type
 - 11.3.1.2.2. By End-User Industry
 - 11.3.2. UAE Modular Test Equipment Market Outlook
 - 11.3.2.1. Market Size & Forecast
 - 11.3.2.1.1. By Value
 - 11.3.2.2. Market Share & Forecast
 - 11.3.2.2.1. By Type
 - 11.3.2.2.2. By End-User Industry
 - 11.3.3. South Africa Modular Test Equipment Market Outlook
 - 11.3.3.1. Market Size & Forecast
 - 11.3.3.1.1. By Value
 - 11.3.3.2. Market Share & Forecast
 - 11.3.3.2.1. By Type
 - 11.3.3.2.2. By End-User Industry
 - 11.3.4. Turkey Modular Test Equipment Market Outlook
 - 11.3.4.1. Market Size & Forecast
 - 11.3.4.1.1. By Value
 - 11.3.4.2. Market Share & Forecast
 - 11.3.4.2.1. By Type
 - 11.3.4.2.2. By End-User Industry

12. ASIA PACIFIC MODULAR TEST EQUIPMENT MARKET OUTLOOK

- 12.1. Market Size & Forecast
 - 12.1.1. By Value
- 12.2. Market Share & Forecast
 - 12.2.1. By Type
 - 12.2.2. By End-User Industry
 - 12.2.3. By Country
- 12.3. Asia-Pacific: Country Analysis
 - 12.3.1. China Modular Test Equipment Market Outlook
 - 12.3.1.1. Market Size & Forecast
 - 12.3.1.1.1. By Value
 - 12.3.1.2. Market Share & Forecast
 - 12.3.1.2.1. By Type
 - 12.3.1.2.2. By End-User Industry
 - 12.3.2. India Modular Test Equipment Market Outlook
 - 12.3.2.1. Market Size & Forecast
 - 12.3.2.1.1. By Value
 - 12.3.2.2. Market Share & Forecast
 - 12.3.2.2.1. By Type
 - 12.3.2.2.2. By End-User Industry
 - 12.3.3. Japan Modular Test Equipment Market Outlook
 - 12.3.3.1. Market Size & Forecast
 - 12.3.3.1.1. By Value
 - 12.3.3.2. Market Share & Forecast
 - 12.3.3.2.1. By Type
 - 12.3.3.2.2. By End-User Industry
 - 12.3.4. South Korea Modular Test Equipment Market Outlook
 - 12.3.4.1. Market Size & Forecast
 - 12.3.4.1.1. By Value
 - 12.3.4.2. Market Share & Forecast
 - 12.3.4.2.1. By Type
 - 12.3.4.2.2. By End-User Industry
 - 12.3.5. Australia Modular Test Equipment Market Outlook
 - 12.3.5.1. Market Size & Forecast
 - 12.3.5.1.1. By Value
 - 12.3.5.2. Market Share & Forecast
 - 12.3.5.2.1. By Type
 - 12.3.5.2.2. By End-User Industry
 - 12.3.6. Thailand Modular Test Equipment Market Outlook

- 12.3.6.1. Market Size & Forecast
 - 12.3.6.1.1. By Value
- 12.3.6.2. Market Share & Forecast
 - 12.3.6.2.1. By Type
 - 12.3.6.2.2. By End-User Industry
- 12.3.7. Malaysia Modular Test Equipment Market Outlook
 - 12.3.7.1. Market Size & Forecast
 - 12.3.7.1.1. By Value
 - 12.3.7.2. Market Share & Forecast
 - 12.3.7.2.1. By Type
 - 12.3.7.2.2. By End-User Industry

13. MARKET DYNAMICS

- 13.1. Drivers
- 13.2. Challenges

14. MARKET TRENDS AND DEVELOPMENTS

15. COMPANY PROFILES

- 15.1. Advantest Corporation
 - 15.1.1. Business Overview
 - 15.1.2. Key Revenue and Financials
 - 15.1.3. Recent Developments
 - 15.1.4. Key Personnel/Key Contact Person
 - 15.1.5. Key Product/Services Offered
- 15.2. Teradyne, Inc.
 - 15.2.1. Business Overview
 - 15.2.2. Key Revenue and Financials
 - 15.2.3. Recent Developments
 - 15.2.4. Key Personnel/Key Contact Person
 - 15.2.5. Key Product/Services Offered
- 15.3. National Instruments
 - 15.3.1. Business Overview
 - 15.3.2. Key Revenue and Financials
 - 15.3.3. Recent Developments
 - 15.3.4. Key Personnel/Key Contact Person
 - 15.3.5. Key Product/Services Offered

15.4. Chroma Ate

- 15.4.1. Business Overview
- 15.4.2. Key Revenue and Financials
- 15.4.3. Recent Developments
- 15.4.4. Key Personnel/Key Contact Person
- 15.4.5. Key Product/Services Offered

15.5. Cohu Inc.

- 15.5.1. Business Overview
- 15.5.2. Key Revenue and Financials
- 15.5.3. Recent Developments
- 15.5.4. Key Personnel/Key Contact Person
- 15.5.5. Key Product/Services Offered

15.6. Astronics Corporation

- 15.6.1. Business Overview
- 15.6.2. Key Revenue and Financials
- 15.6.3. Recent Developments
- 15.6.4. Key Personnel/Key Contact Person
- 15.6.5. Key Product/Services Offered

15.7. Star Technologies

- 15.7.1. Business Overview
- 15.7.2. Key Revenue and Financials
- 15.7.3. Recent Developments
- 15.7.4. Key Personnel/Key Contact Person
- 15.7.5. Key Product/Services Offered

15.8. Roos Instruments

- 15.8.1. Business Overview
- 15.8.2. Key Revenue and Financials
- 15.8.3. Recent Developments
- 15.8.4. Key Personnel/Key Contact Person
- 15.8.5. Key Product/Services Offered

15.9. Marvin Test Solutions

- 15.9.1. Business Overview
- 15.9.2. Key Revenue and Financials
- 15.9.3. Recent Developments
- 15.9.4. Key Personnel/Key Contact Person
- 15.9.5. Key Product/Services Offered

15.10. Omron Corporation

- 15.10.1. Business Overview
- 15.10.2. Key Revenue and Financials

15.10.3. Recent Developments

15.10.4. Key Personnel/Key Contact Person

15.10.5. Key Product/Services Offered

16. STRATEGIC RECOMMENDATIONS

17. ABOUT US & DISCLAIMER

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