Global Automated Test Equipment Market - By Type, End-User Industry, Geography and Vendors - Forecasts and Trends (2016 - 2021)

Description: Automatic test equipment technology has evolved significantly over the years, from dedicated sequencers to mini-computers, and now to personal computers, powerful in processing and memory capabilities, using commercial operating systems and standard languages. This was to match the pace of diagnostic test required in the advancing information technology and electronic industries. Growth and innovation in the industry will continue, fuelled by significant developments in computing, software and instrumentation technology.

Global Automated Test Equipment (ATE) market is expected to reach USD 4.42 billion by 2021 from USD 3.6 billion in 2016 at a CAGR of 3.5%. The market is estimated to increase because of the increased usage of semiconductor devices in consumer products. Asia-Pacific region will be one of the fastest growing regions in future because of the huge increase in semiconductor manufacturing industry.

ATE are computer-controlled and they test electronic devices for its functionality and performance. It uses control hardware, various types of sensors and software to perform, record and analyze Device Under Test (DUT). Tests that these equipment conducts can be both very complex (such as wafer testing for semiconductor device fabrication or for integrated circuits) and simple (such as volt-ohm meters or a digital multimeter that measure resistance and voltage) based on the automated test equipment.

The report analyses the market based on the type of test equipment segregated by the end-user industry. Detailed market shares are given and forecasts for the period 2016 - 2021 for each region are estimated. The major companies in the market like Teradyne, LTX-Credence, Advantest, Aeroflex, Advint, Cal-Bay Systems, SPEA, Rohde & Schwarz GmbH, among others are studied and their strategies are analyzed. Recent developments and their impact on the market are also analyzed.

DRIVERS
- Growth in sales of consumer electronics
- Need for effective testing methods
- New technologies being developed which requires testing before final use

RESTRAINTS
- Depends heavily on semiconductor industry which is cyclic
- High costs associated with testing

Key Deliverables in the Study
- Market analysis for the global automated test equipment market, with region-specific assessments and competition analysis on a global and regional scale.
- Market definition along with the identification of key drivers and restraints.
- Identification of factors instrumental in changing the market scenario, rising prospective opportunities, and identification of key companies that can influence this market on a global and regional scale.
- Extensively researched competitive landscape section with profiles of major companies along with their market share.
- Identification and analysis of the macro and micro factors that affect the global automated test equipment market on both global and regional scale.
- A comprehensive list of key market players along with the analysis of their current strategic interests and key financial information.
- A wide-ranging knowledge and insights about the major players in this industry and the key strategies adopted by them to sustain and grow in the studied market.
- Insights into the major countries/regions where this industry is growing and also identify the regions that are still untapped.

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Contents:

1. KEY FINDINGS OF THE STUDY
2. Executive Summary
3. MARKET OVERVIEW
   3.1 Market Segmentation
   3.2 Overview
   3.3 Industry Value-Chain Analysis
   3.4 Industry Attractiveness - Porter's Five Forces Analysis
   3.5 Industry Policies
4. MARKET DYNAMICS
   4.1 Introduction
   4.2 Drivers
      4.2.1 Growth in Sales of Consumer Electronics
      4.2.2 Need for Effective Testing Methods
      4.2.3 New Technologies Being Developed Which Requires Testing Before Final Use
   4.3 Restraints
      4.3.1 Depends Heavily on Semiconductor Industry Which is Cyclic
      4.3.2 High Costs Associated with Testing
5. Technology Overview
   5.1 Technology Snapshot
   5.2 Types of Automated Test Equipment
   5.3 Ongoing Developments
6. Automated Test Equipment Market by Type of Test Equipment
   6.1 Memory Automated
      6.1.1 Market Size and Forecast
      6.1.2 Analyst View
   6.2 Non-Memory Automated
      6.2.1 Market Size and Forecast
      6.2.2 Analyst View
   6.3 Discrete Automated
      6.3.1 Market Size and Forecast
6.3.2 Analyst View

7. Automated Test Equipment Market by End-User Industry

7.1 Consumer Electronics
7.1.1 Overview
7.1.2 Market Size and Forecast

7.2 Automotive
7.2.1 Overview
7.2.2 Market Size and Forecast

7.3 Communications
7.3.1 Overview
7.3.2 Market Size and Forecast

7.4 Defense
7.4.1 Overview
7.4.2 Market Size and Forecast

7.5 Healthcare
7.5.1 Overview
7.5.2 Market Size and Forecast

7.6 Others
7.6.1 Overview
7.6.2 Market Size and Forecast

8. Automated Test Equipment Market by Geography

8.1 North America
8.1.1 United States
8.1.2 Canada
8.1.3 Others
8.1.4 Analyst View

8.2 Asia-Pacific
8.2.1 China
8.2.2 Japan
8.2.3 South Korea
8.2.4 India
8.2.5 Others
8.2.6 Analyst View
8.3 Europe
8.3.1 United Kingdom
8.3.2 Germany
8.3.3 France
8.3.4 Others
8.3.5 Analyst View
8.4 Rest of the World
8.4.1 Analyst View
9. Vendor Market Share
10. Competitive Intelligence - Company Profiles
10.1 Teradyne
10.1.1 Overview
10.1.2 Major Products and Services
10.1.3 Financials
10.1.4 Recent Developments
10.2 LTX-Credence
10.2.1 Overview
10.2.2 Major Products and Services
10.2.3 Financials
10.2.4 Recent Developments
10.3 Advantest
10.3.1 Overview
10.3.2 Major Products and Services
10.3.3 Financials
10.3.4 Recent Developments
10.4 Aeroflex
10.4.1 Overview
10.4.2 Major Products and Services
10.4.3 Financials
10.4.4 Recent Developments
10.5 Advint
  10.5.1 Overview
  10.5.2 Major Products and Services
  10.5.3 Financials
  10.5.4 Recent Developments

10.6 Agilent Technologies
  10.6.1 Overview
  10.6.2 Major Products and Services
  10.6.3 Financials
  10.6.4 Recent Developments

10.7 Cal-Bay Systems
  10.7.1 Overview
  10.7.2 Major Products and Services
  10.7.3 Financials
  10.7.4 Recent Developments

10.8 National Instruments Corporation
  10.8.1 Overview
  10.8.2 Major Products and Services
  10.8.3 Financials
  10.8.4 Recent Developments

10.9 Anritsu
  10.9.1 Overview
  10.9.2 Major Products and Services
  10.9.3 Financials
  10.9.4 Recent Developments

10.10 SPEA S.P.A
  10.10.1 Overview
  10.10.2 Major Products and Services
  10.10.3 Financials
  10.10.4 Recent Developments

10.11 Rohde & Schwarz GmbH
  10.11.1 Overview
10.11.2 Major Products and Services
10.11.3 Financials
10.11.4 Recent Developments

11. Investment Analysis
11.1 Recent Mergers and Acquisitions
11.2 Role of Business Accelerators
11.3 Investment Outlook

12. Future of Automated Test Equipment Market

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