

# Global Signal Acquisition Module Supply, Demand and Key Producers, 2026-2032

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## Abstracts

The global Signal Acquisition Module market size is expected to reach \$ 5279 million by 2032, rising at a market growth of 6.2% CAGR during the forecast period (2026-2032).

A Signal Acquisition Module (SAM) is an electronic system or subsystem designed to capture analog signals from sensors, condition and convert them into digital data, and transmit the data to a computer or processing unit for analysis, storage, or control purposes. In 2025, global Signal Acquisition Module production reached approximately 2.21 M units, with an average global market price of around US\$ 1500 per unit. Annual production capacity is 2.65 M units. Gross Profit Margin: 28.53%. The signal acquisition module industry chain begins upstream with semiconductor suppliers providing analog front-end chips, ADCs, microcontrollers, FPGAs, and power management components, along with PCB fabrication and precision electronic assembly. Midstream manufacturers integrate these components into modular or embedded acquisition hardware, adding firmware, calibration, and system-level testing. Downstream, products are sold to system integrators, equipment manufacturers, research institutions, and industrial end users across sectors such as automation, energy, transportation, environmental monitoring, and biomedical engineering, where the modules serve as the critical interface between sensors and digital control or analysis systems. Signal acquisition modules occupy a specialized but resilient niche driven by the ongoing need to convert real-world physical signals into reliable digital data. As industries continue adopting automation, predictive maintenance, and intelligent monitoring, demand is shifting toward higher accuracy, multi-channel integration, and network-connected systems rather than standalone hardware. In my view, future growth will be shaped less by basic hardware expansion and more by smart features such as edge processing, synchronization, and seamless integration with software and cloud platforms.

This report studies the global Signal Acquisition Module production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Signal Acquisition Module and provides market size (US\$ million) and Year-over-Year (YoY) Growth, considering 2025 as the base year. This report explores demand trends and competition, as well as details the characteristics of Signal Acquisition Module that contribute to its increasing demand across many markets.

### **Highlights and key features of the study**

Global Signal Acquisition Module total production and demand, 2021-2032, (Units)

Global Signal Acquisition Module total production value, 2021-2032, (USD Million)

Global Signal Acquisition Module production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Units), (based on production site)

Global Signal Acquisition Module consumption by region & country, CAGR, 2021-2032 & (Units)

U.S. VS China: Signal Acquisition Module domestic production, consumption, key domestic manufacturers and share

Global Signal Acquisition Module production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Units)

Global Signal Acquisition Module production by System Integration Form, production, value, CAGR, 2021-2032, (USD Million) & (Units)

Global Signal Acquisition Module production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Units)

This report profiles key players in the global Signal Acquisition Module market based on the following parameters - company overview, production, value, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include National Instruments (United States), Keysight Technologies (United States), Siemens AG (Germany), Honeywell International (United States), Schneider Electric (France), ABB Ltd (Switzerland), Rockwell Automation (United States), Yokogawa Electric Corporation (Japan), Advantech Co., Ltd. (Taiwan), Dewesoft (Slovenia), etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the World Signal Acquisition Module market

**Detailed Segmentation:**

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (Units) and average price (K US\$/Unit) by manufacturer, by System Integration Form, and by Application. Data is given for the years 2021-2032 by year with 2025 as the base year, 2026 as the estimate year, and 2027-2032 as the forecast year.

**Global Signal Acquisition Module Market, By Region:**

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

**Global Signal Acquisition Module Market, Segmentation by System Integration Form:**

Standalone / Benchtop Modules

USB/Portable Modules

Embedded/OEM Modules

Rack-mounted / Modular Systems

## Global Signal Acquisition Module Market, Segmentation by Channel Scale:

Single-Channel Modules

Low-Channel Count Modules (2–8 ch)

Medium-Channel Count Modules (8–32 ch)

High-Channel Count Modules (32+ ch)

## Global Signal Acquisition Module Market, Segmentation by Application:

Biomedical & Life Science

Industrial Process Monitoring & Automation

Scientific Research & Laboratory Testing

Environmental & Agricultural Monitoring

Structural Health & Infrastructure Monitoring

Energy & Power Systems

Transportation & Mobility

## Companies Profiled:

National Instruments (United States)

Keysight Technologies (United States)

Siemens AG (Germany)

Honeywell International (United States)

Schneider Electric (France)

ABB Ltd (Switzerland)

Rockwell Automation (United States)

Yokogawa Electric Corporation (Japan)

Advantech Co., Ltd. (Taiwan)

Dewesoft (Slovenia)

HBM GmbH (Germany)

Campbell Scientific (United States)

Fluke Corporation (United States)

Data Translation (United States)

AMETEK, Inc. (United States)

Spectris PLC (United Kingdom)

Teledyne Technologies (United States)

HIOKI E.E. Corporation (Japan)

General Electric Company (United States)

Emerson Electric Co. (United States)

### **Key Questions Answered:**

1. How big is the global Signal Acquisition Module market?
2. What is the demand of the global Signal Acquisition Module market?
3. What is the year over year growth of the global Signal Acquisition Module market?
4. What is the production and production value of the global Signal Acquisition Module market?
5. Who are the key producers in the global Signal Acquisition Module market?

6. What are the growth factors driving the market demand?

## Contents

### 1 SUPPLY SUMMARY

- 1.1 Forensic Video Enhancement Services Introduction
- 1.2 World Forensic Video Enhancement Services Market Size & Forecast (2021 & 2025 & 2032)
- 1.3 World Forensic Video Enhancement Services Total Market by Region (by Headquarter Location)
  - 1.3.1 World Forensic Video Enhancement Services Market Size by Region (2021-2032), (by Headquarter Location)
  - 1.3.2 United States Based Company Forensic Video Enhancement Services Revenue (2021-2032)
  - 1.3.3 China Based Company Forensic Video Enhancement Services Revenue (2021-2032)
  - 1.3.4 Europe Based Company Forensic Video Enhancement Services Revenue (2021-2032)
  - 1.3.5 Japan Based Company Forensic Video Enhancement Services Revenue (2021-2032)
  - 1.3.6 South Korea Based Company Forensic Video Enhancement Services Revenue (2021-2032)
  - 1.3.7 ASEAN Based Company Forensic Video Enhancement Services Revenue (2021-2032)
  - 1.3.8 India Based Company Forensic Video Enhancement Services Revenue (2021-2032)
- 1.4 Market Drivers, Restraints and Trends
  - 1.4.1 Forensic Video Enhancement Services Market Drivers
  - 1.4.2 Factors Affecting Demand
  - 1.4.3 Major Market Trends

### 2 DEMAND SUMMARY

- 2.1 World Forensic Video Enhancement Services Consumption Value (2021-2032)
- 2.2 World Forensic Video Enhancement Services Consumption Value by Region
  - 2.2.1 World Forensic Video Enhancement Services Consumption Value by Region (2021-2026)
  - 2.2.2 World Forensic Video Enhancement Services Consumption Value Forecast by Region (2027-2032)
- 2.3 United States Forensic Video Enhancement Services Consumption Value

(2021-2032)

2.4 China Forensic Video Enhancement Services Consumption Value (2021-2032)

2.5 Europe Forensic Video Enhancement Services Consumption Value (2021-2032)

2.6 Japan Forensic Video Enhancement Services Consumption Value (2021-2032)

2.7 South Korea Forensic Video Enhancement Services Consumption Value  
(2021-2032)

2.8 ASEAN Forensic Video Enhancement Services Consumption Value (2021-2032)

2.9 India Forensic Video Enhancement Services Consumption Value (2021-2032)

### **3 WORLD FORENSIC VIDEO ENHANCEMENT SERVICES COMPANIES COMPETITIVE ANALYSIS**

3.1 World Forensic Video Enhancement Services Revenue by Player (2021-2026)

3.2 Industry Rank and Concentration Rate (CR)

3.2.1 Global Forensic Video Enhancement Services Industry Rank of Major Players

3.2.2 Global Concentration Ratios (CR4) for Forensic Video Enhancement Services in  
2025

3.2.3 Global Concentration Ratios (CR8) for Forensic Video Enhancement Services in  
2025

3.3 Forensic Video Enhancement Services Company Evaluation Quadrant

3.4 Forensic Video Enhancement Services Market: Overall Company Footprint Analysis

3.4.1 Forensic Video Enhancement Services Market: Region Footprint

3.4.2 Forensic Video Enhancement Services Market: Company Product Type Footprint

3.4.3 Forensic Video Enhancement Services Market: Company Product Application  
Footprint

3.5 Competitive Environment

3.5.1 Historical Structure of the Industry

3.5.2 Barriers of Market Entry

3.5.3 Factors of Competition

3.6 Mergers & Acquisitions Activity

### **4 UNITED STATES VS CHINA VS REST OF WORLD (BY HEADQUARTER LOCATION)**

4.1 United States VS China: Forensic Video Enhancement Services Revenue  
Comparison (by Headquarter Location)

4.1.1 United States VS China: Forensic Video Enhancement Services Revenue  
Comparison (2021 & 2025 & 2032) (by Headquarter Location)

4.1.2 United States VS China: Forensic Video Enhancement Services Revenue Market

Share Comparison (2021 & 2025 & 2032)

4.2 United States Based Companies VS China Based Companies: Forensic Video Enhancement Services Consumption Value Comparison

4.2.1 United States VS China: Forensic Video Enhancement Services Consumption Value Comparison (2021 & 2025 & 2032)

4.2.2 United States VS China: Forensic Video Enhancement Services Consumption Value Market Share Comparison (2021 & 2025 & 2032)

4.3 United States Based Forensic Video Enhancement Services Companies and Market Share, 2021-2026

4.3.1 United States Based Forensic Video Enhancement Services Companies, Headquarters (States, Country)

4.3.2 United States Based Companies Forensic Video Enhancement Services Revenue, (2021-2026)

4.4 China Based Companies Forensic Video Enhancement Services Revenue and Market Share, 2021-2026

4.4.1 China Based Forensic Video Enhancement Services Companies, Company Headquarters (Province, Country)

4.4.2 China Based Companies Forensic Video Enhancement Services Revenue, (2021-2026)

4.5 Rest of World Based Forensic Video Enhancement Services Companies and Market Share, 2021-2026

4.5.1 Rest of World Based Forensic Video Enhancement Services Companies, Headquarters (Province, Country)

4.5.2 Rest of World Based Companies Forensic Video Enhancement Services Revenue (2021-2026)

## **5 MARKET ANALYSIS BY TYPE**

5.1 World Forensic Video Enhancement Services Market Size Overview by Type: 2021 VS 2025 VS 2032

5.2 Segment Introduction by Type

5.2.1 Traditional Algorithm-Based

5.2.2 AI Deep Learning-Based

5.2.3 Hybrid

5.3 Market Segment by Type

5.3.1 World Forensic Video Enhancement Services Market Size by Type (2021-2026)

5.3.2 World Forensic Video Enhancement Services Market Size by Type (2027-2032)

5.3.3 World Forensic Video Enhancement Services Market Size Market Share by Type (2027-2032)

## **6 MARKET ANALYSIS BY SERVICE DELIVERY MODE**

6.1 World Forensic Video Enhancement Services Market Size Overview by Service Delivery Mode: 2021 VS 2025 VS 2032

6.2 Segment Introduction by Service Delivery Mode

6.2.1 Laboratory Professional Forensic Enhancement Service

6.2.2 On-Site Rapid Enhancement Service

6.2.3 Remote Collaborative Enhancement Service

6.3 Market Segment by Service Delivery Mode

6.3.1 World Forensic Video Enhancement Services Market Size by Service Delivery Mode (2021-2026)

6.3.2 World Forensic Video Enhancement Services Market Size by Service Delivery Mode (2027-2032)

6.3.3 World Forensic Video Enhancement Services Market Size Market Share by Service Delivery Mode (2027-2032)

## **7 MARKET ANALYSIS BY APPLICATION**

7.1 World Forensic Video Enhancement Services Market Size Overview by Application: 2021 VS 2025 VS 2032

7.2 Segment Introduction by Application

7.2.1 Law Enforcement & Criminal Investigation

7.2.2 Judicial Trial & Litigation Support

7.2.3 Traffic Accident Investigation & Liability Confirmation

7.2.4 Others

7.3 Market Segment by Application

7.3.1 World Forensic Video Enhancement Services Market Size by Application (2021-2026)

7.3.2 World Forensic Video Enhancement Services Market Size by Application (2027-2032)

7.3.3 World Forensic Video Enhancement Services Market Size Market Share by Application (2021-2032)

## **8 COMPANY PROFILES**

8.1 Primeau Forensics

8.1.1 Primeau Forensics Details

8.1.2 Primeau Forensics Major Business

- 8.1.3 Primeau Forensics Forensic Video Enhancement Services Product and Services
- 8.1.4 Primeau Forensics Forensic Video Enhancement Services Revenue, Gross Margin and Market Share (2021-2026)
- 8.1.5 Primeau Forensics Recent Developments/Updates
- 8.1.6 Primeau Forensics Competitive Strengths & Weaknesses
- 8.2 Envista Forensics
  - 8.2.1 Envista Forensics Details
  - 8.2.2 Envista Forensics Major Business
  - 8.2.3 Envista Forensics Forensic Video Enhancement Services Product and Services
  - 8.2.4 Envista Forensics Forensic Video Enhancement Services Revenue, Gross Margin and Market Share (2021-2026)
  - 8.2.5 Envista Forensics Recent Developments/Updates
  - 8.2.6 Envista Forensics Competitive Strengths & Weaknesses
- 8.3 Garrett Discovery
  - 8.3.1 Garrett Discovery Details
  - 8.3.2 Garrett Discovery Major Business
  - 8.3.3 Garrett Discovery Forensic Video Enhancement Services Product and Services
  - 8.3.4 Garrett Discovery Forensic Video Enhancement Services Revenue, Gross Margin and Market Share (2021-2026)
  - 8.3.5 Garrett Discovery Recent Developments/Updates
  - 8.3.6 Garrett Discovery Competitive Strengths & Weaknesses
- 8.4 Rimkus
  - 8.4.1 Rimkus Details
  - 8.4.2 Rimkus Major Business
  - 8.4.3 Rimkus Forensic Video Enhancement Services Product and Services
  - 8.4.4 Rimkus Forensic Video Enhancement Services Revenue, Gross Margin and Market Share (2021-2026)
  - 8.4.5 Rimkus Recent Developments/Updates
  - 8.4.6 Rimkus Competitive Strengths & Weaknesses
- 8.5 NCAVF
  - 8.5.1 NCAVF Details
  - 8.5.2 NCAVF Major Business
  - 8.5.3 NCAVF Forensic Video Enhancement Services Product and Services
  - 8.5.4 NCAVF Forensic Video Enhancement Services Revenue, Gross Margin and Market Share (2021-2026)
  - 8.5.5 NCAVF Recent Developments/Updates
  - 8.5.6 NCAVF Competitive Strengths & Weaknesses
- 8.6 Focal Forensics
  - 8.6.1 Focal Forensics Details

- 8.6.2 Focal Forensics Major Business
- 8.6.3 Focal Forensics Forensic Video Enhancement Services Product and Services
- 8.6.4 Focal Forensics Forensic Video Enhancement Services Revenue, Gross Margin and Market Share (2021-2026)
- 8.6.5 Focal Forensics Recent Developments/Updates
- 8.6.6 Focal Forensics Competitive Strengths & Weaknesses
- 8.7 Combs Forensic Services
  - 8.7.1 Combs Forensic Services Details
  - 8.7.2 Combs Forensic Services Major Business
  - 8.7.3 Combs Forensic Services Forensic Video Enhancement Services Product and Services
  - 8.7.4 Combs Forensic Services Forensic Video Enhancement Services Revenue, Gross Margin and Market Share (2021-2026)
  - 8.7.5 Combs Forensic Services Recent Developments/Updates
  - 8.7.6 Combs Forensic Services Competitive Strengths & Weaknesses
- 8.8 Principle Forensics
  - 8.8.1 Principle Forensics Details
  - 8.8.2 Principle Forensics Major Business
  - 8.8.3 Principle Forensics Forensic Video Enhancement Services Product and Services
  - 8.8.4 Principle Forensics Forensic Video Enhancement Services Revenue, Gross Margin and Market Share (2021-2026)
  - 8.8.5 Principle Forensics Recent Developments/Updates
  - 8.8.6 Principle Forensics Competitive Strengths & Weaknesses
- 8.9 CYFOR
  - 8.9.1 CYFOR Details
  - 8.9.2 CYFOR Major Business
  - 8.9.3 CYFOR Forensic Video Enhancement Services Product and Services
  - 8.9.4 CYFOR Forensic Video Enhancement Services Revenue, Gross Margin and Market Share (2021-2026)
  - 8.9.5 CYFOR Recent Developments/Updates
  - 8.9.6 CYFOR Competitive Strengths & Weaknesses
- 8.10 Forensic Video Services
  - 8.10.1 Forensic Video Services Details
  - 8.10.2 Forensic Video Services Major Business
  - 8.10.3 Forensic Video Services Forensic Video Enhancement Services Product and Services
  - 8.10.4 Forensic Video Services Forensic Video Enhancement Services Revenue, Gross Margin and Market Share (2021-2026)
  - 8.10.5 Forensic Video Services Recent Developments/Updates

- 8.10.6 Forensic Video Services Competitive Strengths & Weaknesses
- 8.11 Xpera
  - 8.11.1 Xpera Details
  - 8.11.2 Xpera Major Business
  - 8.11.3 Xpera Forensic Video Enhancement Services Product and Services
  - 8.11.4 Xpera Forensic Video Enhancement Services Revenue, Gross Margin and Market Share (2021-2026)
  - 8.11.5 Xpera Recent Developments/Updates
  - 8.11.6 Xpera Competitive Strengths & Weaknesses
- 8.12 Black Dog Forensics
  - 8.12.1 Black Dog Forensics Details
  - 8.12.2 Black Dog Forensics Major Business
  - 8.12.3 Black Dog Forensics Forensic Video Enhancement Services Product and Services
  - 8.12.4 Black Dog Forensics Forensic Video Enhancement Services Revenue, Gross Margin and Market Share (2021-2026)
  - 8.12.5 Black Dog Forensics Recent Developments/Updates
  - 8.12.6 Black Dog Forensics Competitive Strengths & Weaknesses
- 8.13 Forensic Video Law
  - 8.13.1 Forensic Video Law Details
  - 8.13.2 Forensic Video Law Major Business
  - 8.13.3 Forensic Video Law Forensic Video Enhancement Services Product and Services
  - 8.13.4 Forensic Video Law Forensic Video Enhancement Services Revenue, Gross Margin and Market Share (2021-2026)
  - 8.13.5 Forensic Video Law Recent Developments/Updates
  - 8.13.6 Forensic Video Law Competitive Strengths & Weaknesses
- 8.14 Eclipse Forensics
  - 8.14.1 Eclipse Forensics Details
  - 8.14.2 Eclipse Forensics Major Business
  - 8.14.3 Eclipse Forensics Forensic Video Enhancement Services Product and Services
  - 8.14.4 Eclipse Forensics Forensic Video Enhancement Services Revenue, Gross Margin and Market Share (2021-2026)
  - 8.14.5 Eclipse Forensics Recent Developments/Updates
  - 8.14.6 Eclipse Forensics Competitive Strengths & Weaknesses
- 8.15 LCG Discovery Experts
  - 8.15.1 LCG Discovery Experts Details
  - 8.15.2 LCG Discovery Experts Major Business
  - 8.15.3 LCG Discovery Experts Forensic Video Enhancement Services Product and

## Services

8.15.4 LCG Discovery Experts Forensic Video Enhancement Services Revenue, Gross Margin and Market Share (2021-2026)

8.15.5 LCG Discovery Experts Recent Developments/Updates

8.15.6 LCG Discovery Experts Competitive Strengths & Weaknesses

## 8.16 CrimeSonics

8.16.1 CrimeSonics Details

8.16.2 CrimeSonics Major Business

8.16.3 CrimeSonics Forensic Video Enhancement Services Product and Services

8.16.4 CrimeSonics Forensic Video Enhancement Services Revenue, Gross Margin and Market Share (2021-2026)

8.16.5 CrimeSonics Recent Developments/Updates

8.16.6 CrimeSonics Competitive Strengths & Weaknesses

## 8.17 IFIL Forensic

8.17.1 IFIL Forensic Details

8.17.2 IFIL Forensic Major Business

8.17.3 IFIL Forensic Forensic Video Enhancement Services Product and Services

8.17.4 IFIL Forensic Forensic Video Enhancement Services Revenue, Gross Margin and Market Share (2021-2026)

8.17.5 IFIL Forensic Recent Developments/Updates

8.17.6 IFIL Forensic Competitive Strengths & Weaknesses

## 8.18 Lyonswood

8.18.1 Lyonswood Details

8.18.2 Lyonswood Major Business

8.18.3 Lyonswood Forensic Video Enhancement Services Product and Services

8.18.4 Lyonswood Forensic Video Enhancement Services Revenue, Gross Margin and Market Share (2021-2026)

8.18.5 Lyonswood Recent Developments/Updates

8.18.6 Lyonswood Competitive Strengths & Weaknesses

## 8.19 Creative Forensic Services

8.19.1 Creative Forensic Services Details

8.19.2 Creative Forensic Services Major Business

8.19.3 Creative Forensic Services Forensic Video Enhancement Services Product and Services

8.19.4 Creative Forensic Services Forensic Video Enhancement Services Revenue, Gross Margin and Market Share (2021-2026)

8.19.5 Creative Forensic Services Recent Developments/Updates

8.19.6 Creative Forensic Services Competitive Strengths & Weaknesses

## **9 INDUSTRY CHAIN ANALYSIS**

9.1 Forensic Video Enhancement Services Industry Chain

9.2 Forensic Video Enhancement Services Upstream Analysis

9.3 Forensic Video Enhancement Services Midstream Analysis

9.4 Forensic Video Enhancement Services Downstream Analysis

## **10 RESEARCH FINDINGS AND CONCLUSION**

## **11 APPENDIX**

11.1 Methodology

11.2 Research Process and Data Source

11.3 Disclaimer

## List Of Tables

### LIST OF TABLES

Table 1. World Signal Acquisition Module Production Value by Region (2021, 2025 and 2032) & (USD Million)

Table 2. World Signal Acquisition Module Production Value by Region (2021-2026) & (USD Million)

Table 3. World Signal Acquisition Module Production Value by Region (2027-2032) & (USD Million)

Table 4. World Signal Acquisition Module Production Value Market Share by Region (2021-2026)

Table 5. World Signal Acquisition Module Production Value Market Share by Region (2027-2032)

Table 6. World Signal Acquisition Module Production by Region (2021-2026) & (Units)

Table 7. World Signal Acquisition Module Production by Region (2027-2032) & (Units)

Table 8. World Signal Acquisition Module Production Market Share by Region (2021-2026)

Table 9. World Signal Acquisition Module Production Market Share by Region (2027-2032)

Table 10. World Signal Acquisition Module Average Price by Region (2021-2026) & (K US\$/Unit)

Table 11. World Signal Acquisition Module Average Price by Region (2027-2032) & (K US\$/Unit)

Table 12. Signal Acquisition Module Major Market Trends

Table 13. World Signal Acquisition Module Consumption Growth Rate Forecast by Region (2021 & 2025 & 2032) & (Units)

Table 14. World Signal Acquisition Module Consumption by Region (2021-2026) & (Units)

Table 15. World Signal Acquisition Module Consumption Forecast by Region (2027-2032) & (Units)

Table 16. World Signal Acquisition Module Production Value by Manufacturer (2021-2026) & (USD Million)

Table 17. Production Value Market Share of Key Signal Acquisition Module Producers in 2025

Table 18. World Signal Acquisition Module Production by Manufacturer (2021-2026) & (Units)

Table 19. Production Market Share of Key Signal Acquisition Module Producers in 2025

Table 20. World Signal Acquisition Module Average Price by Manufacturer (2021-2026)

& (K US\$/Unit)

Table 21. Global Signal Acquisition Module Company Evaluation Quadrant

Table 22. World Signal Acquisition Module Industry Rank of Major Manufacturers, Based on Production Value in 2025

Table 23. Head Office and Signal Acquisition Module Production Site of Key Manufacturer

Table 24. Signal Acquisition Module Market: Company Product Type Footprint

Table 25. Signal Acquisition Module Market: Company Product Application Footprint

Table 26. Signal Acquisition Module Competitive Factors

Table 27. Signal Acquisition Module New Entrant and Capacity Expansion Plans

Table 28. Signal Acquisition Module Mergers & Acquisitions Activity

Table 29. United States VS China Signal Acquisition Module Production Value Comparison, (2021 & 2025 & 2032) & (USD Million)

Table 30. United States VS China Signal Acquisition Module Production Comparison, (2021 & 2025 & 2032) & (Units)

Table 31. United States VS China Signal Acquisition Module Consumption Comparison, (2021 & 2025 & 2032) & (Units)

Table 32. United States Based Signal Acquisition Module Manufacturers, Headquarters and Production Site (States, Country)

Table 33. United States Based Manufacturers Signal Acquisition Module Production Value, (2021-2026) & (USD Million)

Table 34. United States Based Manufacturers Signal Acquisition Module Production Value Market Share (2021-2026)

Table 35. United States Based Manufacturers Signal Acquisition Module Production (2021-2026) & (Units)

Table 36. United States Based Manufacturers Signal Acquisition Module Production Market Share (2021-2026)

Table 37. China Based Signal Acquisition Module Manufacturers, Headquarters and Production Site (Province, Country)

Table 38. China Based Manufacturers Signal Acquisition Module Production Value, (2021-2026) & (USD Million)

Table 39. China Based Manufacturers Signal Acquisition Module Production Value Market Share (2021-2026)

Table 40. China Based Manufacturers Signal Acquisition Module Production, (2021-2026) & (Units)

Table 41. China Based Manufacturers Signal Acquisition Module Production Market Share (2021-2026)

Table 42. Rest of World Based Signal Acquisition Module Manufacturers, Headquarters and Production Site (State, Country)

Table 43. Rest of World Based Manufacturers Signal Acquisition Module Production Value, (2021-2026) & (USD Million)

Table 44. Rest of World Based Manufacturers Signal Acquisition Module Production Value Market Share (2021-2026)

Table 45. Rest of World Based Manufacturers Signal Acquisition Module Production, (2021-2026) & (Units)

Table 46. Rest of World Based Manufacturers Signal Acquisition Module Production Market Share (2021-2026)

Table 47. World Signal Acquisition Module Production Value by System Integration Form, (USD Million), 2021 & 2025 & 2032

Table 48. World Signal Acquisition Module Production by System Integration Form (2021-2026) & (Units)

Table 49. World Signal Acquisition Module Production by System Integration Form (2027-2032) & (Units)

Table 50. World Signal Acquisition Module Production Value by System Integration Form (2021-2026) & (USD Million)

Table 51. World Signal Acquisition Module Production Value by System Integration Form (2027-2032) & (USD Million)

Table 52. World Signal Acquisition Module Average Price by System Integration Form (2021-2026) & (K US\$/Unit)

Table 53. World Signal Acquisition Module Average Price by System Integration Form (2027-2032) & (K US\$/Unit)

Table 54. World Signal Acquisition Module Production Value by Channel Scale, (USD Million), 2021 & 2025 & 2032

Table 55. World Signal Acquisition Module Production by Channel Scale (2021-2026) & (Units)

Table 56. World Signal Acquisition Module Production by Channel Scale (2027-2032) & (Units)

Table 57. World Signal Acquisition Module Production Value by Channel Scale (2021-2026) & (USD Million)

Table 58. World Signal Acquisition Module Production Value by Channel Scale (2027-2032) & (USD Million)

Table 59. World Signal Acquisition Module Average Price by Channel Scale (2021-2026) & (K US\$/Unit)

Table 60. World Signal Acquisition Module Average Price by Channel Scale (2027-2032) & (K US\$/Unit)

Table 61. World Signal Acquisition Module Production Value by Application, (USD Million), 2021 & 2025 & 2032

Table 62. World Signal Acquisition Module Production by Application (2021-2026) &

(Units)

Table 63. World Signal Acquisition Module Production by Application (2027-2032) &

(Units)

Table 64. World Signal Acquisition Module Production Value by Application (2021-2026)

& (USD Million)

Table 65. World Signal Acquisition Module Production Value by Application (2027-2032)

& (USD Million)

Table 66. World Signal Acquisition Module Average Price by Application (2021-2026) &

(K US\$/Unit)

Table 67. World Signal Acquisition Module Average Price by Application (2027-2032) &

(K US\$/Unit)

Table 68. National Instruments (United States) Basic Information, Manufacturing Base and Competitors

Table 69. National Instruments (United States) Major Business

Table 70. National Instruments (United States) Signal Acquisition Module Product and Services

Table 71. National Instruments (United States) Signal Acquisition Module Production (Units), Price (K US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 72. National Instruments (United States) Recent Developments/Updates

Table 73. National Instruments (United States) Competitive Strengths & Weaknesses

Table 74. Keysight Technologies (United States) Basic Information, Manufacturing Base and Competitors

Table 75. Keysight Technologies (United States) Major Business

Table 76. Keysight Technologies (United States) Signal Acquisition Module Product and Services

Table 77. Keysight Technologies (United States) Signal Acquisition Module Production (Units), Price (K US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 78. Keysight Technologies (United States) Recent Developments/Updates

Table 79. Keysight Technologies (United States) Competitive Strengths & Weaknesses

Table 80. Siemens AG (Germany) Basic Information, Manufacturing Base and Competitors

Table 81. Siemens AG (Germany) Major Business

Table 82. Siemens AG (Germany) Signal Acquisition Module Product and Services

Table 83. Siemens AG (Germany) Signal Acquisition Module Production (Units), Price (K US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 84. Siemens AG (Germany) Recent Developments/Updates

- Table 85. Siemens AG (Germany) Competitive Strengths & Weaknesses
- Table 86. Honeywell International (United States) Basic Information, Manufacturing Base and Competitors
- Table 87. Honeywell International (United States) Major Business
- Table 88. Honeywell International (United States) Signal Acquisition Module Product and Services
- Table 89. Honeywell International (United States) Signal Acquisition Module Production (Units), Price (K US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 90. Honeywell International (United States) Recent Developments/Updates
- Table 91. Honeywell International (United States) Competitive Strengths & Weaknesses
- Table 92. Schneider Electric (France) Basic Information, Manufacturing Base and Competitors
- Table 93. Schneider Electric (France) Major Business
- Table 94. Schneider Electric (France) Signal Acquisition Module Product and Services
- Table 95. Schneider Electric (France) Signal Acquisition Module Production (Units), Price (K US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 96. Schneider Electric (France) Recent Developments/Updates
- Table 97. Schneider Electric (France) Competitive Strengths & Weaknesses
- Table 98. ABB Ltd (Switzerland) Basic Information, Manufacturing Base and Competitors
- Table 99. ABB Ltd (Switzerland) Major Business
- Table 100. ABB Ltd (Switzerland) Signal Acquisition Module Product and Services
- Table 101. ABB Ltd (Switzerland) Signal Acquisition Module Production (Units), Price (K US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 102. ABB Ltd (Switzerland) Recent Developments/Updates
- Table 103. ABB Ltd (Switzerland) Competitive Strengths & Weaknesses
- Table 104. Rockwell Automation (United States) Basic Information, Manufacturing Base and Competitors
- Table 105. Rockwell Automation (United States) Major Business
- Table 106. Rockwell Automation (United States) Signal Acquisition Module Product and Services
- Table 107. Rockwell Automation (United States) Signal Acquisition Module Production (Units), Price (K US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 108. Rockwell Automation (United States) Recent Developments/Updates
- Table 109. Rockwell Automation (United States) Competitive Strengths & Weaknesses

Table 110. Yokogawa Electric Corporation (Japan) Basic Information, Manufacturing Base and Competitors

Table 111. Yokogawa Electric Corporation (Japan) Major Business

Table 112. Yokogawa Electric Corporation (Japan) Signal Acquisition Module Product and Services

Table 113. Yokogawa Electric Corporation (Japan) Signal Acquisition Module Production (Units), Price (K US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 114. Yokogawa Electric Corporation (Japan) Recent Developments/Updates

Table 115. Yokogawa Electric Corporation (Japan) Competitive Strengths & Weaknesses

Table 116. Advantech Co., Ltd. (Taiwan) Basic Information, Manufacturing Base and Competitors

Table 117. Advantech Co., Ltd. (Taiwan) Major Business

Table 118. Advantech Co., Ltd. (Taiwan) Signal Acquisition Module Product and Services

Table 119. Advantech Co., Ltd. (Taiwan) Signal Acquisition Module Production (Units), Price (K US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 120. Advantech Co., Ltd. (Taiwan) Recent Developments/Updates

Table 121. Advantech Co., Ltd. (Taiwan) Competitive Strengths & Weaknesses

Table 122. Dewesoft (Slovenia) Basic Information, Manufacturing Base and Competitors

Table 123. Dewesoft (Slovenia) Major Business

Table 124. Dewesoft (Slovenia) Signal Acquisition Module Product and Services

Table 125. Dewesoft (Slovenia) Signal Acquisition Module Production (Units), Price (K US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 126. Dewesoft (Slovenia) Recent Developments/Updates

Table 127. Dewesoft (Slovenia) Competitive Strengths & Weaknesses

Table 128. HBM GmbH (Germany) Basic Information, Manufacturing Base and Competitors

Table 129. HBM GmbH (Germany) Major Business

Table 130. HBM GmbH (Germany) Signal Acquisition Module Product and Services

Table 131. HBM GmbH (Germany) Signal Acquisition Module Production (Units), Price (K US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 132. HBM GmbH (Germany) Recent Developments/Updates

Table 133. HBM GmbH (Germany) Competitive Strengths & Weaknesses

Table 134. Campbell Scientific (United States) Basic Information, Manufacturing Base and Competitors

Table 135. Campbell Scientific (United States) Major Business

Table 136. Campbell Scientific (United States) Signal Acquisition Module Product and Services

Table 137. Campbell Scientific (United States) Signal Acquisition Module Production (Units), Price (K US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 138. Campbell Scientific (United States) Recent Developments/Updates

Table 139. Campbell Scientific (United States) Competitive Strengths & Weaknesses

Table 140. Fluke Corporation (United States) Basic Information, Manufacturing Base and Competitors

Table 141. Fluke Corporation (United States) Major Business

Table 142. Fluke Corporation (United States) Signal Acquisition Module Product and Services

Table 143. Fluke Corporation (United States) Signal Acquisition Module Production (Units), Price (K US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 144. Fluke Corporation (United States) Recent Developments/Updates

Table 145. Fluke Corporation (United States) Competitive Strengths & Weaknesses

Table 146. Data Translation (United States) Basic Information, Manufacturing Base and Competitors

Table 147. Data Translation (United States) Major Business

Table 148. Data Translation (United States) Signal Acquisition Module Product and Services

Table 149. Data Translation (United States) Signal Acquisition Module Production (Units), Price (K US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 150. Data Translation (United States) Recent Developments/Updates

Table 151. Data Translation (United States) Competitive Strengths & Weaknesses

Table 152. AMETEK, Inc. (United States) Basic Information, Manufacturing Base and Competitors

Table 153. AMETEK, Inc. (United States) Major Business

Table 154. AMETEK, Inc. (United States) Signal Acquisition Module Product and Services

Table 155. AMETEK, Inc. (United States) Signal Acquisition Module Production (Units), Price (K US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 156. AMETEK, Inc. (United States) Recent Developments/Updates

Table 157. AMETEK, Inc. (United States) Competitive Strengths & Weaknesses

Table 158. Spectris PLC (United Kingdom) Basic Information, Manufacturing Base and Competitors

Table 159. Spectris PLC (United Kingdom) Major Business

Table 160. Spectris PLC (United Kingdom) Signal Acquisition Module Product and Services

Table 161. Spectris PLC (United Kingdom) Signal Acquisition Module Production (Units), Price (K US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 162. Spectris PLC (United Kingdom) Recent Developments/Updates

Table 163. Spectris PLC (United Kingdom) Competitive Strengths & Weaknesses

Table 164. Teledyne Technologies (United States) Basic Information, Manufacturing Base and Competitors

Table 165. Teledyne Technologies (United States) Major Business

Table 166. Teledyne Technologies (United States) Signal Acquisition Module Product and Services

Table 167. Teledyne Technologies (United States) Signal Acquisition Module Production (Units), Price (K US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 168. Teledyne Technologies (United States) Recent Developments/Updates

Table 169. Teledyne Technologies (United States) Competitive Strengths & Weaknesses

Table 170. HIOKI E.E. Corporation (Japan) Basic Information, Manufacturing Base and Competitors

Table 171. HIOKI E.E. Corporation (Japan) Major Business

Table 172. HIOKI E.E. Corporation (Japan) Signal Acquisition Module Product and Services

Table 173. HIOKI E.E. Corporation (Japan) Signal Acquisition Module Production (Units), Price (K US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 174. HIOKI E.E. Corporation (Japan) Recent Developments/Updates

Table 175. HIOKI E.E. Corporation (Japan) Competitive Strengths & Weaknesses

Table 176. General Electric Company (United States) Basic Information, Manufacturing Base and Competitors

Table 177. General Electric Company (United States) Major Business

Table 178. General Electric Company (United States) Signal Acquisition Module Product and Services

Table 179. General Electric Company (United States) Signal Acquisition Module Production (Units), Price (K US\$/Unit), Production Value (USD Million), Gross Margin

and Market Share (2021-2026)

Table 180. General Electric Company (United States) Recent Developments/Updates

Table 181. General Electric Company (United States) Competitive Strengths & Weaknesses

Table 182. Emerson Electric Co. (United States) Basic Information, Manufacturing Base and Competitors

Table 183. Emerson Electric Co. (United States) Major Business

Table 184. Emerson Electric Co. (United States) Signal Acquisition Module Product and Services

Table 185. Emerson Electric Co. (United States) Signal Acquisition Module Production (Units), Price (K US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 186. Emerson Electric Co. (United States) Recent Developments/Updates

Table 187. Emerson Electric Co. (United States) Competitive Strengths & Weaknesses

Table 188. Global Key Players of Signal Acquisition Module Upstream (Raw Materials)

Table 189. Global Signal Acquisition Module Typical Customers

Table 190. Signal Acquisition Module Typical Distributors

## List Of Figures

### LIST OF FIGURES

Figure 1. Signal Acquisition Module Picture

Figure 2. World Signal Acquisition Module Production Value: 2021 & 2025 & 2032, (USD Million)

Figure 3. World Signal Acquisition Module Production Value and Forecast (2021-2032) & (USD Million)

Figure 4. World Signal Acquisition Module Production (2021-2032) & (Units)

Figure 5. World Signal Acquisition Module Average Price (2021-2032) & (K US\$/Unit)

Figure 6. World Signal Acquisition Module Production Value Market Share by Region (2021-2032)

Figure 7. World Signal Acquisition Module Production Market Share by Region (2021-2032)

Figure 8. North America Signal Acquisition Module Production (2021-2032) & (Units)

Figure 9. Europe Signal Acquisition Module Production (2021-2032) & (Units)

Figure 10. China Signal Acquisition Module Production (2021-2032) & (Units)

Figure 11. Japan Signal Acquisition Module Production (2021-2032) & (Units)

Figure 12. South Korea Signal Acquisition Module Production (2021-2032) & (Units)

Figure 13. Southeast Asia Signal Acquisition Module Production (2021-2032) & (Units)

Figure 14. China Taiwan Signal Acquisition Module Production (2021-2032) & (Units)

Figure 15. Signal Acquisition Module Market Drivers

Figure 16. Factors Affecting Demand

Figure 17. World Signal Acquisition Module Consumption (2021-2032) & (Units)

Figure 18. World Signal Acquisition Module Consumption Market Share by Region (2021-2032)

Figure 19. United States Signal Acquisition Module Consumption (2021-2032) & (Units)

Figure 20. China Signal Acquisition Module Consumption (2021-2032) & (Units)

Figure 21. Europe Signal Acquisition Module Consumption (2021-2032) & (Units)

Figure 22. Japan Signal Acquisition Module Consumption (2021-2032) & (Units)

Figure 23. South Korea Signal Acquisition Module Consumption (2021-2032) & (Units)

Figure 24. ASEAN Signal Acquisition Module Consumption (2021-2032) & (Units)

Figure 25. India Signal Acquisition Module Consumption (2021-2032) & (Units)

Figure 26. Producer Shipments of Signal Acquisition Module by Manufacturer Revenue (\$MM) and Market Share (%): 2025

Figure 27. Global Four-firm Concentration Ratios (CR4) for Signal Acquisition Module Markets in 2025

Figure 28. Global Four-firm Concentration Ratios (CR8) for Signal Acquisition Module

## Markets in 2025

Figure 29. United States VS China: Signal Acquisition Module Production Value Market Share Comparison (2021 & 2025 & 2032)

Figure 30. United States VS China: Signal Acquisition Module Production Market Share Comparison (2021 & 2025 & 2032)

Figure 31. United States VS China: Signal Acquisition Module Consumption Market Share Comparison (2021 & 2025 & 2032)

Figure 32. United States Based Manufacturers Signal Acquisition Module Production Market Share 2025

Figure 33. China Based Manufacturers Signal Acquisition Module Production Market Share 2025

Figure 34. Rest of World Based Manufacturers Signal Acquisition Module Production Market Share 2025

Figure 35. World Signal Acquisition Module Production Value by System Integration Form, (USD Million), 2021 & 2025 & 2032

Figure 36. World Signal Acquisition Module Production Value Market Share by System Integration Form in 2025

Figure 37. Standalone / Benchtop Modules

Figure 38. USB/Portable Modules

Figure 39. Embedded/OEM Modules

Figure 40. Rack-mounted / Modular Systems

Figure 41. World Signal Acquisition Module Production Market Share by System Integration Form (2021-2032)

Figure 42. World Signal Acquisition Module Production Value Market Share by System Integration Form (2021-2032)

Figure 43. World Signal Acquisition Module Average Price by System Integration Form (2021-2032) & (K US\$/Unit)

Figure 44. World Signal Acquisition Module Production Value by Channel Scale, (USD Million), 2021 & 2025 & 2032

Figure 45. World Signal Acquisition Module Production Value Market Share by Channel Scale in 2025

Figure 46. Single-Channel Modules

Figure 47. Low-Channel Count Modules (2–8 ch)

Figure 48. Medium-Channel Count Modules (8–32 ch)

Figure 49. High-Channel Count Modules (32+ ch)

Figure 50. World Signal Acquisition Module Production Market Share by Channel Scale (2021-2032)

Figure 51. World Signal Acquisition Module Production Value Market Share by Channel Scale (2021-2032)

- Figure 52. World Signal Acquisition Module Average Price by Channel Scale (2021-2032) & (K US\$/Unit)
- Figure 53. World Signal Acquisition Module Production Value by Application, (USD Million), 2021 & 2025 & 2032
- Figure 54. World Signal Acquisition Module Production Value Market Share by Application in 2025
- Figure 55. Biomedical & Life Science
- Figure 56. Industrial Process Monitoring & Automation
- Figure 57. Scientific Research & Laboratory Testing
- Figure 58. Environmental & Agricultural Monitoring
- Figure 59. Structural Health & Infrastructure Monitoring
- Figure 60. Energy & Power Systems
- Figure 61. Transportation & Mobility
- Figure 62. World Signal Acquisition Module Production Market Share by Application (2021-2032)
- Figure 63. World Signal Acquisition Module Production Value Market Share by Application (2021-2032)
- Figure 64. World Signal Acquisition Module Average Price by Application (2021-2032) & (K US\$/Unit)
- Figure 65. Signal Acquisition Module Industry Chain
- Figure 66. Signal Acquisition Module Procurement Model
- Figure 67. Signal Acquisition Module Sales Model
- Figure 68. Signal Acquisition Module Sales Channels, Direct Sales, and Distribution
- Figure 69. Methodology
- Figure 70. Research Process and Data Source

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