

# Global MEMS Probe Cards for Storage Market 2026 by Manufacturers, Regions, Type and Application, Forecast to 2032

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## Abstracts

According to our (Global Info Research) latest study, the global MEMS Probe Cards for Storage market size was valued at US\$ 648 million in 2025 and is forecast to a readjusted size of US\$ 1127 million by 2032 with a CAGR of 7.7% during review period.

Global sales of MEMS probe cards for storage reached 70 million units in 2025, with an average selling price of approximately \$9 per unit. With a production capacity of 100 million units, the industry's gross profit margin is approximately 40-60%.

MEMS probe cards for storage are precision test interfaces specifically designed for high-density memory chips (such as HBM, DRAM, and NAND Flash), manufactured using Micro-Electro-Mechanical Systems (MEMS) technology. Their core functionality involves direct contact between a micron-level probe array and the chip surface pads or bumps, enabling high-precision transmission of electrical signals. This supports parameter detection and functional verification of memory chips during the wafer testing phase, making them a key consumable for ensuring memory chip yield and reliability. The upstream sector encompasses MEMS probe manufacturing materials (such as silicon-based wafers and special metals), high-precision PCB substrates, and spatial transfer modules; the midstream involves probe card R&D and manufacturing, requiring the integration of micro/nano fabrication, signal simulation, and mechanical structure optimization technologies; and the downstream sector is applied in memory chip design, wafer manufacturing, and packaging testing, with customers including memory giants such as Samsung, SK Hynix, and Yangtze Memory Technologies.

Market drivers primarily include the following:

Technological upgrades drive demand growth.

Continuous advancements in semiconductor technology are the core driving force behind the development of the MEMS probe card market for memory applications. While Moore's Law is gradually approaching its limits, process technology continues to evolve towards smaller sizes. The "post-Moore's Law era" of SoC and SiP technologies has made semiconductor product structures increasingly complex, significantly increasing packaging costs. This trend places stringent demands on wafer testing, prompting probe cards to iterate towards higher precision and more complex structures. As a crucial component of the semiconductor industry, the miniaturization and increased integration of memory chips directly drive the demand for high-precision, high-reliability MEMS probe cards. For example, in the manufacturing of 3D NAND memory chips, multi-layer stacked structures require probe cards to achieve denser test point connections while ensuring signal transmission stability to adapt to high-frequency, high-speed testing scenarios. Furthermore, the increasing demands on storage performance from emerging fields such as AI chips and 5G communication chips further promote the technological upgrade and market expansion of MEMS probe cards for memory applications.

#### Domestic Substitution Policies Accelerate Market Penetration

Driven by both changes in the international political environment and domestic industrial security needs, the Chinese government has introduced a series of policies to support the development of the semiconductor industry, providing strong impetus for the domestic substitution of MEMS probe cards for storage. From the "Guidance Catalogue for Industrial Structure Adjustment" to the "Action Plan for Stabilizing Growth in the Electronic Information Manufacturing Industry," and the planning document listing integrated circuits as a strategic emerging industry, policies comprehensively cover key aspects such as technology research and development, industrial layout, and financial support. These policies not only reduce the R&D costs and market entry barriers for domestic enterprises but also encourage enterprises to increase investment and accelerate technological breakthroughs through tax incentives and subsidies. Against this backdrop, domestic MEMS probe card companies are gradually narrowing the gap with international giants, achieving significant improvements in product quality, performance stability, and delivery capabilities. For example, some domestic companies have achieved the capability to process micro-needles below 5 $\mu$ m and have achieved large-scale applications in logic chips, memory chips, and other fields, gradually breaking the market monopoly of foreign manufacturers and accelerating the process of domestic substitution.

## Packaging Technology Revolution and Emerging Applications Expand Demand Boundaries

The popularization of advanced packaging technologies and the emergence of new application scenarios have opened up new growth space for the MEMS probe card market for storage. The rise of 3D ICs and Chiplet packaging has placed demands on probe cards for high-density layouts, high pin counts, and high signal integrity. For example, in the Chiplet architecture, the number of test points per chip has increased dramatically, requiring probe cards to achieve finer pin pitch control and more stable signal transmission to meet the testing needs of heterogeneous integration scenarios. Simultaneously, the trend towards intelligent and electric vehicles has led to a significant increase in demand for automotive-grade memory chips. The AEC-Q100 certification standard requires probe cards to possess high reliability, high temperature resistance, and vibration resistance to adapt to the complex automotive environment. Furthermore, the testing requirements of high-end memory products such as HBM (High Bandwidth Memory) are also driving the evolution of probe cards towards higher frequencies, higher speeds, and lower losses. The convergence of these technological changes and emerging application scenarios has not only expanded the market boundaries of MEMS probe cards for storage but also provided a clear direction for their technological upgrades and product iterations.

This report is a detailed and comprehensive analysis for global MEMS Probe Cards for Storage market. Both quantitative and qualitative analyses are presented by manufacturers, by region & country, by Type and by Application. As the market is constantly changing, this report explores the competition, supply and demand trends, as well as key factors that contribute to its changing demands across many markets. Company profiles and product examples of selected competitors, along with market share estimates of some of the selected leaders for the year 2025, are provided.

### **Key Features:**

Global MEMS Probe Cards for Storage market size and forecasts, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2021-2032

Global MEMS Probe Cards for Storage market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2021-2032

Global MEMS Probe Cards for Storage market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2021-2032

Global MEMS Probe Cards for Storage market shares of main players, shipments in revenue (\$ Million), sales quantity (K Units), and ASP (US\$/Unit), 2021-2026

### **The Primary Objectives in This Report Are:**

To determine the size of the total market opportunity of global and key countries

To assess the growth potential for MEMS Probe Cards for Storage

To forecast future growth in each product and end-use market

To assess competitive factors affecting the marketplace

This report profiles key players in the global MEMS Probe Cards for Storage market based on the following parameters - company overview, sales quantity, revenue, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include FormFactor, Technoprobe S.p.A., Micronics Japan (MJC), JEM, MPI Corporation, Qiangyi Shares, SV Probe, Microfriend, Korea Instrument, Will Technology, etc.

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

### **Market Segmentation**

MEMS Probe Cards for Storage market is split by Type and by Application. For the period 2021-2032, the growth among segments provides accurate calculations and forecasts for consumption value by Type, and by Application in terms of volume and value. This analysis can help you expand your business by targeting qualified niche markets.

Market segment by Type

2D

2.5D/3D

Market segment by Function Category

High-Speed ??Signal Test Card

Low Temperature Test Card

Multi-Chip Parallel Test Card

#### Market segment by Product Form

Standard Model

Customized Model

#### Market segment by Application

HBM

NOR Flash

DRAM

NAND Flash

Others

#### Major players covered

FormFactor

Technoprobe S.p.A.

Micronics Japan (MJC)

JEM

MPI Corporation

Qiangyi Shares

SV Probe

Microfriend

Korea Instrument

Will Technology

TSE

Feinmetall

Changhong International

Microneedle Semiconductor

Zefeng Semiconductor

Market segment by region, regional analysis covers  
North America (United States, Canada, and Mexico)  
Europe (Germany, France, United Kingdom, Russia, Italy, and Rest of Europe)  
Asia-Pacific (China, Japan, Korea, India, Southeast Asia, and Australia)  
South America (Brazil, Argentina, Colombia, and Rest of South America)  
Middle East & Africa (Saudi Arabia, UAE, Egypt, South Africa, and Rest of Middle East & Africa)

**The content of the study subjects, includes a total of 15 chapters:**

Chapter 1, to describe MEMS Probe Cards for Storage product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of MEMS Probe Cards for Storage, with price, sales quantity, revenue, and global market share of MEMS Probe Cards for Storage from 2021 to 2026.

Chapter 3, the MEMS Probe Cards for Storage competitive situation, sales quantity,

revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the MEMS Probe Cards for Storage breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2021 to 2032.

Chapter 5 and 6, to segment the sales by Type and by Application, with sales market share and growth rate by Type, by Application, from 2021 to 2032.

Chapter 7, 8, 9, 10 and 11, to break the sales data at the country level, with sales quantity, consumption value, and market share for key countries in the world, from 2021 to 2026. and MEMS Probe Cards for Storage market forecast, by regions, by Type, and by Application, with sales and revenue, from 2027 to 2032.

Chapter 12, market dynamics, drivers, restraints, trends, and Porters Five Forces analysis.

Chapter 13, the key raw materials and key suppliers, and industry chain of MEMS Probe Cards for Storage.

Chapter 14 and 15, to describe MEMS Probe Cards for Storage sales channel, distributors, customers, research findings and conclusion.

## Contents

### 1 MARKET OVERVIEW

1.1 Product Overview and Scope

1.2 Market Estimation Caveats and Base Year

1.3 Market Analysis by Type

1.3.1 Overview: Global MEMS Probe Cards for Storage Consumption Value by Type: 2021 Versus 2025 Versus 2032

1.3.2 2D

1.3.3 2.5D/3D

1.4 Market Analysis by Function Category

1.4.1 Overview: Global MEMS Probe Cards for Storage Consumption Value by Function Category: 2021 Versus 2025 Versus 2032

1.4.2 High-Speed ??Signal Test Card

1.4.3 Low Temperature Test Card

1.4.4 Multi-Chip Parallel Test Card

1.5 Market Analysis by Product Form

1.5.1 Overview: Global MEMS Probe Cards for Storage Consumption Value by Product Form: 2021 Versus 2025 Versus 2032

1.5.2 Standard Model

1.5.3 Customized Model

1.6 Market Analysis by Application

1.6.1 Overview: Global MEMS Probe Cards for Storage Consumption Value by Application: 2021 Versus 2025 Versus 2032

1.6.2 HBM

1.6.3 NOR Flash

1.6.4 DRAM

1.6.5 NAND Flash

1.6.6 Others

1.7 Global MEMS Probe Cards for Storage Market Size & Forecast

1.7.1 Global MEMS Probe Cards for Storage Consumption Value (2021 & 2025 & 2032)

1.7.2 Global MEMS Probe Cards for Storage Sales Quantity (2021-2032)

1.7.3 Global MEMS Probe Cards for Storage Average Price (2021-2032)

### 2 MANUFACTURERS PROFILES

2.1 FormFactor

- 2.1.1 FormFactor Details
- 2.1.2 FormFactor Major Business
- 2.1.3 FormFactor MEMS Probe Cards for Storage Product and Services
- 2.1.4 FormFactor MEMS Probe Cards for Storage Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
- 2.1.5 FormFactor Recent Developments/Updates
- 2.2 Technoprobe S.p.A.
  - 2.2.1 Technoprobe S.p.A. Details
  - 2.2.2 Technoprobe S.p.A. Major Business
  - 2.2.3 Technoprobe S.p.A. MEMS Probe Cards for Storage Product and Services
  - 2.2.4 Technoprobe S.p.A. MEMS Probe Cards for Storage Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
  - 2.2.5 Technoprobe S.p.A. Recent Developments/Updates
- 2.3 Micronics Japan (MJC)
  - 2.3.1 Micronics Japan (MJC) Details
  - 2.3.2 Micronics Japan (MJC) Major Business
  - 2.3.3 Micronics Japan (MJC) MEMS Probe Cards for Storage Product and Services
  - 2.3.4 Micronics Japan (MJC) MEMS Probe Cards for Storage Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
  - 2.3.5 Micronics Japan (MJC) Recent Developments/Updates
- 2.4 JEM
  - 2.4.1 JEM Details
  - 2.4.2 JEM Major Business
  - 2.4.3 JEM MEMS Probe Cards for Storage Product and Services
  - 2.4.4 JEM MEMS Probe Cards for Storage Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
  - 2.4.5 JEM Recent Developments/Updates
- 2.5 MPI Corporation
  - 2.5.1 MPI Corporation Details
  - 2.5.2 MPI Corporation Major Business
  - 2.5.3 MPI Corporation MEMS Probe Cards for Storage Product and Services
  - 2.5.4 MPI Corporation MEMS Probe Cards for Storage Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
  - 2.5.5 MPI Corporation Recent Developments/Updates
- 2.6 Qiangyi Shares
  - 2.6.1 Qiangyi Shares Details
  - 2.6.2 Qiangyi Shares Major Business
  - 2.6.3 Qiangyi Shares MEMS Probe Cards for Storage Product and Services
  - 2.6.4 Qiangyi Shares MEMS Probe Cards for Storage Sales Quantity, Average Price,

Revenue, Gross Margin and Market Share (2021-2026)

2.6.5 Qiangyi Shares Recent Developments/Updates

2.7 SV Probe

2.7.1 SV Probe Details

2.7.2 SV Probe Major Business

2.7.3 SV Probe MEMS Probe Cards for Storage Product and Services

2.7.4 SV Probe MEMS Probe Cards for Storage Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

2.7.5 SV Probe Recent Developments/Updates

2.8 Microfriend

2.8.1 Microfriend Details

2.8.2 Microfriend Major Business

2.8.3 Microfriend MEMS Probe Cards for Storage Product and Services

2.8.4 Microfriend MEMS Probe Cards for Storage Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

2.8.5 Microfriend Recent Developments/Updates

2.9 Korea Instrument

2.9.1 Korea Instrument Details

2.9.2 Korea Instrument Major Business

2.9.3 Korea Instrument MEMS Probe Cards for Storage Product and Services

2.9.4 Korea Instrument MEMS Probe Cards for Storage Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

2.9.5 Korea Instrument Recent Developments/Updates

2.10 Will Technology

2.10.1 Will Technology Details

2.10.2 Will Technology Major Business

2.10.3 Will Technology MEMS Probe Cards for Storage Product and Services

2.10.4 Will Technology MEMS Probe Cards for Storage Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

2.10.5 Will Technology Recent Developments/Updates

2.11 TSE

2.11.1 TSE Details

2.11.2 TSE Major Business

2.11.3 TSE MEMS Probe Cards for Storage Product and Services

2.11.4 TSE MEMS Probe Cards for Storage Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

2.11.5 TSE Recent Developments/Updates

2.12 Feinmetall

2.12.1 Feinmetall Details

- 2.12.2 Feinmetall Major Business
- 2.12.3 Feinmetall MEMS Probe Cards for Storage Product and Services
- 2.12.4 Feinmetall MEMS Probe Cards for Storage Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
- 2.12.5 Feinmetall Recent Developments/Updates
- 2.13 Changhong International
  - 2.13.1 Changhong International Details
  - 2.13.2 Changhong International Major Business
  - 2.13.3 Changhong International MEMS Probe Cards for Storage Product and Services
  - 2.13.4 Changhong International MEMS Probe Cards for Storage Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
  - 2.13.5 Changhong International Recent Developments/Updates
- 2.14 Microneedle Semiconductor
  - 2.14.1 Microneedle Semiconductor Details
  - 2.14.2 Microneedle Semiconductor Major Business
  - 2.14.3 Microneedle Semiconductor MEMS Probe Cards for Storage Product and Services
  - 2.14.4 Microneedle Semiconductor MEMS Probe Cards for Storage Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
  - 2.14.5 Microneedle Semiconductor Recent Developments/Updates
- 2.15 Zefeng Semiconductor
  - 2.15.1 Zefeng Semiconductor Details
  - 2.15.2 Zefeng Semiconductor Major Business
  - 2.15.3 Zefeng Semiconductor MEMS Probe Cards for Storage Product and Services
  - 2.15.4 Zefeng Semiconductor MEMS Probe Cards for Storage Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
  - 2.15.5 Zefeng Semiconductor Recent Developments/Updates

### **3 COMPETITIVE ENVIRONMENT: MEMS PROBE CARDS FOR STORAGE BY MANUFACTURER**

- 3.1 Global MEMS Probe Cards for Storage Sales Quantity by Manufacturer (2021-2026)
- 3.2 Global MEMS Probe Cards for Storage Revenue by Manufacturer (2021-2026)
- 3.3 Global MEMS Probe Cards for Storage Average Price by Manufacturer (2021-2026)
- 3.4 Market Share Analysis (2025)
  - 3.4.1 Producer Shipments of MEMS Probe Cards for Storage by Manufacturer Revenue (\$MM) and Market Share (%): 2025
  - 3.4.2 Top 3 MEMS Probe Cards for Storage Manufacturer Market Share in 2025
  - 3.4.3 Top 6 MEMS Probe Cards for Storage Manufacturer Market Share in 2025

- 3.5 MEMS Probe Cards for Storage Market: Overall Company Footprint Analysis
  - 3.5.1 MEMS Probe Cards for Storage Market: Region Footprint
  - 3.5.2 MEMS Probe Cards for Storage Market: Company Product Type Footprint
  - 3.5.3 MEMS Probe Cards for Storage Market: Company Product Application Footprint
- 3.6 New Market Entrants and Barriers to Market Entry
- 3.7 Mergers, Acquisition, Agreements, and Collaborations

## **4 CONSUMPTION ANALYSIS BY REGION**

- 4.1 Global MEMS Probe Cards for Storage Market Size by Region
  - 4.1.1 Global MEMS Probe Cards for Storage Sales Quantity by Region (2021-2032)
  - 4.1.2 Global MEMS Probe Cards for Storage Consumption Value by Region (2021-2032)
  - 4.1.3 Global MEMS Probe Cards for Storage Average Price by Region (2021-2032)
- 4.2 North America MEMS Probe Cards for Storage Consumption Value (2021-2032)
- 4.3 Europe MEMS Probe Cards for Storage Consumption Value (2021-2032)
- 4.4 Asia-Pacific MEMS Probe Cards for Storage Consumption Value (2021-2032)
- 4.5 South America MEMS Probe Cards for Storage Consumption Value (2021-2032)
- 4.6 Middle East & Africa MEMS Probe Cards for Storage Consumption Value (2021-2032)

## **5 MARKET SEGMENT BY TYPE**

- 5.1 Global MEMS Probe Cards for Storage Sales Quantity by Type (2021-2032)
- 5.2 Global MEMS Probe Cards for Storage Consumption Value by Type (2021-2032)
- 5.3 Global MEMS Probe Cards for Storage Average Price by Type (2021-2032)

## **6 MARKET SEGMENT BY APPLICATION**

- 6.1 Global MEMS Probe Cards for Storage Sales Quantity by Application (2021-2032)
- 6.2 Global MEMS Probe Cards for Storage Consumption Value by Application (2021-2032)
- 6.3 Global MEMS Probe Cards for Storage Average Price by Application (2021-2032)

## **7 NORTH AMERICA**

- 7.1 North America MEMS Probe Cards for Storage Sales Quantity by Type (2021-2032)
- 7.2 North America MEMS Probe Cards for Storage Sales Quantity by Application (2021-2032)

## 7.3 North America MEMS Probe Cards for Storage Market Size by Country

7.3.1 North America MEMS Probe Cards for Storage Sales Quantity by Country (2021-2032)

7.3.2 North America MEMS Probe Cards for Storage Consumption Value by Country (2021-2032)

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

7.3.4 Canada Market Size and Forecast (2021-2032)

7.3.5 Mexico Market Size and Forecast (2021-2032)

## 8 EUROPE

8.1 Europe MEMS Probe Cards for Storage Sales Quantity by Type (2021-2032)

8.2 Europe MEMS Probe Cards for Storage Sales Quantity by Application (2021-2032)

8.3 Europe MEMS Probe Cards for Storage Market Size by Country

8.3.1 Europe MEMS Probe Cards for Storage Sales Quantity by Country (2021-2032)

8.3.2 Europe MEMS Probe Cards for Storage Consumption Value by Country (2021-2032)

8.3.3 Germany Market Size and Forecast (2021-2032)

8.3.4 France Market Size and Forecast (2021-2032)

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

8.3.6 Russia Market Size and Forecast (2021-2032)

8.3.7 Italy Market Size and Forecast (2021-2032)

## 9 ASIA-PACIFIC

9.1 Asia-Pacific MEMS Probe Cards for Storage Sales Quantity by Type (2021-2032)

9.2 Asia-Pacific MEMS Probe Cards for Storage Sales Quantity by Application (2021-2032)

9.3 Asia-Pacific MEMS Probe Cards for Storage Market Size by Region

9.3.1 Asia-Pacific MEMS Probe Cards for Storage Sales Quantity by Region (2021-2032)

9.3.2 Asia-Pacific MEMS Probe Cards for Storage Consumption Value by Region (2021-2032)

9.3.3 China Market Size and Forecast (2021-2032)

9.3.4 Japan Market Size and Forecast (2021-2032)

9.3.5 South Korea Market Size and Forecast (2021-2032)

9.3.6 India Market Size and Forecast (2021-2032)

9.3.7 Southeast Asia Market Size and Forecast (2021-2032)

9.3.8 Australia Market Size and Forecast (2021-2032)

## **10 SOUTH AMERICA**

- 10.1 South America MEMS Probe Cards for Storage Sales Quantity by Type (2021-2032)
- 10.2 South America MEMS Probe Cards for Storage Sales Quantity by Application (2021-2032)
- 10.3 South America MEMS Probe Cards for Storage Market Size by Country
  - 10.3.1 South America MEMS Probe Cards for Storage Sales Quantity by Country (2021-2032)
  - 10.3.2 South America MEMS Probe Cards for Storage Consumption Value by Country (2021-2032)
  - 10.3.3 Brazil Market Size and Forecast (2021-2032)
  - 10.3.4 Argentina Market Size and Forecast (2021-2032)

## **11 MIDDLE EAST & AFRICA**

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

## **12 MARKET DYNAMICS**

- 12.1 MEMS Probe Cards for Storage Market Drivers
- 12.2 MEMS Probe Cards for Storage Market Restraints
- 12.3 MEMS Probe Cards for Storage Trends Analysis
- 12.4 Porters Five Forces Analysis
  - 12.4.1 Threat of New Entrants
  - 12.4.2 Bargaining Power of Suppliers

12.4.3 Bargaining Power of Buyers

12.4.4 Threat of Substitutes

12.4.5 Competitive Rivalry

## **13 RAW MATERIAL AND INDUSTRY CHAIN**

13.1 Raw Material of MEMS Probe Cards for Storage and Key Manufacturers

13.2 Manufacturing Costs Percentage of MEMS Probe Cards for Storage

13.3 MEMS Probe Cards for Storage Production Process

13.4 Industry Value Chain Analysis

## **14 SHIPMENTS BY DISTRIBUTION CHANNEL**

14.1 Sales Channel

14.1.1 Direct to End-User

14.1.2 Distributors

14.2 MEMS Probe Cards for Storage Typical Distributors

14.3 MEMS Probe Cards for Storage Typical Customers

## **15 RESEARCH FINDINGS AND CONCLUSION**

## **16 APPENDIX**

16.1 Methodology

16.2 Research Process and Data Source

16.3 Disclaimer

## List Of Tables

### LIST OF TABLES

Table 1. Global MEMS Probe Cards for Storage Consumption Value by Type, (USD Million), 2021 & 2025 & 2032

Table 2. Global MEMS Probe Cards for Storage Consumption Value by Function Category, (USD Million), 2021 & 2025 & 2032

Table 3. Global MEMS Probe Cards for Storage Consumption Value by Product Form, (USD Million), 2021 & 2025 & 2032

Table 4. Global MEMS Probe Cards for Storage Consumption Value by Application, (USD Million), 2021 & 2025 & 2032

Table 5. FormFactor Basic Information, Manufacturing Base and Competitors

Table 6. FormFactor Major Business

Table 7. FormFactor MEMS Probe Cards for Storage Product and Services

Table 8. FormFactor MEMS Probe Cards for Storage Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 9. FormFactor Recent Developments/Updates

Table 10. Technoprobe S.p.A. Basic Information, Manufacturing Base and Competitors

Table 11. Technoprobe S.p.A. Major Business

Table 12. Technoprobe S.p.A. MEMS Probe Cards for Storage Product and Services

Table 13. Technoprobe S.p.A. MEMS Probe Cards for Storage Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 14. Technoprobe S.p.A. Recent Developments/Updates

Table 15. Micronics Japan (MJC) Basic Information, Manufacturing Base and Competitors

Table 16. Micronics Japan (MJC) Major Business

Table 17. Micronics Japan (MJC) MEMS Probe Cards for Storage Product and Services

Table 18. Micronics Japan (MJC) MEMS Probe Cards for Storage Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 19. Micronics Japan (MJC) Recent Developments/Updates

Table 20. JEM Basic Information, Manufacturing Base and Competitors

Table 21. JEM Major Business

Table 22. JEM MEMS Probe Cards for Storage Product and Services

Table 23. JEM MEMS Probe Cards for Storage Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 24. JEM Recent Developments/Updates

Table 25. MPI Corporation Basic Information, Manufacturing Base and Competitors

Table 26. MPI Corporation Major Business

Table 27. MPI Corporation MEMS Probe Cards for Storage Product and Services

Table 28. MPI Corporation MEMS Probe Cards for Storage Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 29. MPI Corporation Recent Developments/Updates

Table 30. Qiangyi Shares Basic Information, Manufacturing Base and Competitors

Table 31. Qiangyi Shares Major Business

Table 32. Qiangyi Shares MEMS Probe Cards for Storage Product and Services

Table 33. Qiangyi Shares MEMS Probe Cards for Storage Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 34. Qiangyi Shares Recent Developments/Updates

Table 35. SV Probe Basic Information, Manufacturing Base and Competitors

Table 36. SV Probe Major Business

Table 37. SV Probe MEMS Probe Cards for Storage Product and Services

Table 38. SV Probe MEMS Probe Cards for Storage Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 39. SV Probe Recent Developments/Updates

Table 40. Microfriend Basic Information, Manufacturing Base and Competitors

Table 41. Microfriend Major Business

Table 42. Microfriend MEMS Probe Cards for Storage Product and Services

Table 43. Microfriend MEMS Probe Cards for Storage Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 44. Microfriend Recent Developments/Updates

Table 45. Korea Instrument Basic Information, Manufacturing Base and Competitors

Table 46. Korea Instrument Major Business

Table 47. Korea Instrument MEMS Probe Cards for Storage Product and Services

Table 48. Korea Instrument MEMS Probe Cards for Storage Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 49. Korea Instrument Recent Developments/Updates

Table 50. Will Technology Basic Information, Manufacturing Base and Competitors

Table 51. Will Technology Major Business

Table 52. Will Technology MEMS Probe Cards for Storage Product and Services

Table 53. Will Technology MEMS Probe Cards for Storage Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share

(2021-2026)

Table 54. Will Technology Recent Developments/Updates

Table 55. TSE Basic Information, Manufacturing Base and Competitors

Table 56. TSE Major Business

Table 57. TSE MEMS Probe Cards for Storage Product and Services

Table 58. TSE MEMS Probe Cards for Storage Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 59. TSE Recent Developments/Updates

Table 60. Feinmetall Basic Information, Manufacturing Base and Competitors

Table 61. Feinmetall Major Business

Table 62. Feinmetall MEMS Probe Cards for Storage Product and Services

Table 63. Feinmetall MEMS Probe Cards for Storage Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 64. Feinmetall Recent Developments/Updates

Table 65. Changhong International Basic Information, Manufacturing Base and Competitors

Table 66. Changhong International Major Business

Table 67. Changhong International MEMS Probe Cards for Storage Product and Services

Table 68. Changhong International MEMS Probe Cards for Storage Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 69. Changhong International Recent Developments/Updates

Table 70. Microneedle Semiconductor Basic Information, Manufacturing Base and Competitors

Table 71. Microneedle Semiconductor Major Business

Table 72. Microneedle Semiconductor MEMS Probe Cards for Storage Product and Services

Table 73. Microneedle Semiconductor MEMS Probe Cards for Storage Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 74. Microneedle Semiconductor Recent Developments/Updates

Table 75. Zefeng Semiconductor Basic Information, Manufacturing Base and Competitors

Table 76. Zefeng Semiconductor Major Business

Table 77. Zefeng Semiconductor MEMS Probe Cards for Storage Product and Services

Table 78. Zefeng Semiconductor MEMS Probe Cards for Storage Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

- Table 79. Zefeng Semiconductor Recent Developments/Updates
- Table 80. Global MEMS Probe Cards for Storage Sales Quantity by Manufacturer (2021-2026) & (K Units)
- Table 81. Global MEMS Probe Cards for Storage Revenue by Manufacturer (2021-2026) & (USD Million)
- Table 82. Global MEMS Probe Cards for Storage Average Price by Manufacturer (2021-2026) & (US\$/Unit)
- Table 83. Market Position of Manufacturers in MEMS Probe Cards for Storage, (Tier 1, Tier 2, and Tier 3), Based on Revenue in 2025
- Table 84. Head Office and MEMS Probe Cards for Storage Production Site of Key Manufacturer
- Table 85. MEMS Probe Cards for Storage Market: Company Product Type Footprint
- Table 86. MEMS Probe Cards for Storage Market: Company Product Application Footprint
- Table 87. MEMS Probe Cards for Storage New Market Entrants and Barriers to Market Entry
- Table 88. MEMS Probe Cards for Storage Mergers, Acquisition, Agreements, and Collaborations
- Table 89. Global MEMS Probe Cards for Storage Consumption Value by Region (2021-2025-2032) & (USD Million) & CAGR
- Table 90. Global MEMS Probe Cards for Storage Sales Quantity by Region (2021-2026) & (K Units)
- Table 91. Global MEMS Probe Cards for Storage Sales Quantity by Region (2027-2032) & (K Units)
- Table 92. Global MEMS Probe Cards for Storage Consumption Value by Region (2021-2026) & (USD Million)
- Table 93. Global MEMS Probe Cards for Storage Consumption Value by Region (2027-2032) & (USD Million)
- Table 94. Global MEMS Probe Cards for Storage Average Price by Region (2021-2026) & (US\$/Unit)
- Table 95. Global MEMS Probe Cards for Storage Average Price by Region (2027-2032) & (US\$/Unit)
- Table 96. Global MEMS Probe Cards for Storage Sales Quantity by Type (2021-2026) & (K Units)
- Table 97. Global MEMS Probe Cards for Storage Sales Quantity by Type (2027-2032) & (K Units)
- Table 98. Global MEMS Probe Cards for Storage Consumption Value by Type (2021-2026) & (USD Million)
- Table 99. Global MEMS Probe Cards for Storage Consumption Value by Type

(2027-2032) & (USD Million)

Table 100. Global MEMS Probe Cards for Storage Average Price by Type (2021-2026) & (US\$/Unit)

Table 101. Global MEMS Probe Cards for Storage Average Price by Type (2027-2032) & (US\$/Unit)

Table 102. Global MEMS Probe Cards for Storage Sales Quantity by Application (2021-2026) & (K Units)

Table 103. Global MEMS Probe Cards for Storage Sales Quantity by Application (2027-2032) & (K Units)

Table 104. Global MEMS Probe Cards for Storage Consumption Value by Application (2021-2026) & (USD Million)

Table 105. Global MEMS Probe Cards for Storage Consumption Value by Application (2027-2032) & (USD Million)

Table 106. Global MEMS Probe Cards for Storage Average Price by Application (2021-2026) & (US\$/Unit)

Table 107. Global MEMS Probe Cards for Storage Average Price by Application (2027-2032) & (US\$/Unit)

Table 108. North America MEMS Probe Cards for Storage Sales Quantity by Type (2021-2026) & (K Units)

Table 109. North America MEMS Probe Cards for Storage Sales Quantity by Type (2027-2032) & (K Units)

Table 110. North America MEMS Probe Cards for Storage Sales Quantity by Application (2021-2026) & (K Units)

Table 111. North America MEMS Probe Cards for Storage Sales Quantity by Application (2027-2032) & (K Units)

Table 112. North America MEMS Probe Cards for Storage Sales Quantity by Country (2021-2026) & (K Units)

Table 113. North America MEMS Probe Cards for Storage Sales Quantity by Country (2027-2032) & (K Units)

Table 114. North America MEMS Probe Cards for Storage Consumption Value by Country (2021-2026) & (USD Million)

Table 115. North America MEMS Probe Cards for Storage Consumption Value by Country (2027-2032) & (USD Million)

Table 116. Europe MEMS Probe Cards for Storage Sales Quantity by Type (2021-2026) & (K Units)

Table 117. Europe MEMS Probe Cards for Storage Sales Quantity by Type (2027-2032) & (K Units)

Table 118. Europe MEMS Probe Cards for Storage Sales Quantity by Application (2021-2026) & (K Units)

Table 119. Europe MEMS Probe Cards for Storage Sales Quantity by Application (2027-2032) & (K Units)

Table 120. Europe MEMS Probe Cards for Storage Sales Quantity by Country (2021-2026) & (K Units)

Table 121. Europe MEMS Probe Cards for Storage Sales Quantity by Country (2027-2032) & (K Units)

Table 122. Europe MEMS Probe Cards for Storage Consumption Value by Country (2021-2026) & (USD Million)

Table 123. Europe MEMS Probe Cards for Storage Consumption Value by Country (2027-2032) & (USD Million)

Table 124. Asia-Pacific MEMS Probe Cards for Storage Sales Quantity by Type (2021-2026) & (K Units)

Table 125. Asia-Pacific MEMS Probe Cards for Storage Sales Quantity by Type (2027-2032) & (K Units)

Table 126. Asia-Pacific MEMS Probe Cards for Storage Sales Quantity by Application (2021-2026) & (K Units)

Table 127. Asia-Pacific MEMS Probe Cards for Storage Sales Quantity by Application (2027-2032) & (K Units)

Table 128. Asia-Pacific MEMS Probe Cards for Storage Sales Quantity by Region (2021-2026) & (K Units)

Table 129. Asia-Pacific MEMS Probe Cards for Storage Sales Quantity by Region (2027-2032) & (K Units)

Table 130. Asia-Pacific MEMS Probe Cards for Storage Consumption Value by Region (2021-2026) & (USD Million)

Table 131. Asia-Pacific MEMS Probe Cards for Storage Consumption Value by Region (2027-2032) & (USD Million)

Table 132. South America MEMS Probe Cards for Storage Sales Quantity by Type (2021-2026) & (K Units)

Table 133. South America MEMS Probe Cards for Storage Sales Quantity by Type (2027-2032) & (K Units)

Table 134. South America MEMS Probe Cards for Storage Sales Quantity by Application (2021-2026) & (K Units)

Table 135. South America MEMS Probe Cards for Storage Sales Quantity by Application (2027-2032) & (K Units)

Table 136. South America MEMS Probe Cards for Storage Sales Quantity by Country (2021-2026) & (K Units)

Table 137. South America MEMS Probe Cards for Storage Sales Quantity by Country (2027-2032) & (K Units)

Table 138. South America MEMS Probe Cards for Storage Consumption Value by

Country (2021-2026) & (USD Million)

Table 139. South America MEMS Probe Cards for Storage Consumption Value by Country (2027-2032) & (USD Million)

Table 140. Middle East & Africa MEMS Probe Cards for Storage Sales Quantity by Type (2021-2026) & (K Units)

Table 141. Middle East & Africa MEMS Probe Cards for Storage Sales Quantity by Type (2027-2032) & (K Units)

Table 142. Middle East & Africa MEMS Probe Cards for Storage Sales Quantity by Application (2021-2026) & (K Units)

Table 143. Middle East & Africa MEMS Probe Cards for Storage Sales Quantity by Application (2027-2032) & (K Units)

Table 144. Middle East & Africa MEMS Probe Cards for Storage Sales Quantity by Country (2021-2026) & (K Units)

Table 145. Middle East & Africa MEMS Probe Cards for Storage Sales Quantity by Country (2027-2032) & (K Units)

Table 146. Middle East & Africa MEMS Probe Cards for Storage Consumption Value by Country (2021-2026) & (USD Million)

Table 147. Middle East & Africa MEMS Probe Cards for Storage Consumption Value by Country (2027-2032) & (USD Million)

Table 148. MEMS Probe Cards for Storage Raw Material

Table 149. Key Manufacturers of MEMS Probe Cards for Storage Raw Materials

Table 150. MEMS Probe Cards for Storage Typical Distributors

Table 151. MEMS Probe Cards for Storage Typical Customers

## List Of Figures

### LIST OF FIGURES

Figure 1. MEMS Probe Cards for Storage Picture

Figure 2. Global MEMS Probe Cards for Storage Revenue by Type, (USD Million), 2021 & 2025 & 2032

Figure 3. Global MEMS Probe Cards for Storage Revenue Market Share by Type in 2025

Figure 4. 2D Examples

Figure 5. 2.5D/3D Examples

Figure 6. Global MEMS Probe Cards for Storage Revenue by Function Category, (USD Million), 2021 & 2025 & 2032

Figure 7. Global MEMS Probe Cards for Storage Revenue Market Share by Function Category in 2025

Figure 8. High-Speed ??Signal Test Card Examples

Figure 9. Low Temperature Test Card Examples

Figure 10. Multi-Chip Parallel Test Card Examples

Figure 11. Global MEMS Probe Cards for Storage Revenue by Product Form, (USD Million), 2021 & 2025 & 2032

Figure 12. Global MEMS Probe Cards for Storage Revenue Market Share by Product Form in 2025

Figure 13. Standard Model Examples

Figure 14. Customized Model Examples

Figure 15. Global MEMS Probe Cards for Storage Consumption Value by Application, (USD Million), 2021 & 2025 & 2032

Figure 16. Global MEMS Probe Cards for Storage Revenue Market Share by Application in 2025

Figure 17. HBM Examples

Figure 18. NOR Flash Examples

Figure 19. DRAM Examples

Figure 20. NAND Flash Examples

Figure 21. Others Examples

Figure 22. Global MEMS Probe Cards for Storage Consumption Value, (USD Million): 2021 & 2025 & 2032

Figure 23. Global MEMS Probe Cards for Storage Consumption Value and Forecast (2021-2032) & (USD Million)

Figure 24. Global MEMS Probe Cards for Storage Sales Quantity (2021-2032) & (K Units)

Figure 25. Global MEMS Probe Cards for Storage Price (2021-2032) & (US\$/Unit)

Figure 26. Global MEMS Probe Cards for Storage Sales Quantity Market Share by Manufacturer in 2025

Figure 27. Global MEMS Probe Cards for Storage Revenue Market Share by Manufacturer in 2025

Figure 28. Producer Shipments of MEMS Probe Cards for Storage by Manufacturer Sales (\$MM) and Market Share (%): 2025

Figure 29. Top 3 MEMS Probe Cards for Storage Manufacturer (Revenue) Market Share in 2025

Figure 30. Top 6 MEMS Probe Cards for Storage Manufacturer (Revenue) Market Share in 2025

Figure 31. Global MEMS Probe Cards for Storage Sales Quantity Market Share by Region (2021-2032)

Figure 32. Global MEMS Probe Cards for Storage Consumption Value Market Share by Region (2021-2032)

Figure 33. North America MEMS Probe Cards for Storage Consumption Value (2021-2032) & (USD Million)

Figure 34. Europe MEMS Probe Cards for Storage Consumption Value (2021-2032) & (USD Million)

Figure 35. Asia-Pacific MEMS Probe Cards for Storage Consumption Value (2021-2032) & (USD Million)

Figure 36. South America MEMS Probe Cards for Storage Consumption Value (2021-2032) & (USD Million)

Figure 37. Middle East & Africa MEMS Probe Cards for Storage Consumption Value (2021-2032) & (USD Million)

Figure 38. Global MEMS Probe Cards for Storage Sales Quantity Market Share by Type (2021-2032)

Figure 39. Global MEMS Probe Cards for Storage Consumption Value Market Share by Type (2021-2032)

Figure 40. Global MEMS Probe Cards for Storage Average Price by Type (2021-2032) & (US\$/Unit)

Figure 41. Global MEMS Probe Cards for Storage Sales Quantity Market Share by Application (2021-2032)

Figure 42. Global MEMS Probe Cards for Storage Revenue Market Share by Application (2021-2032)

Figure 43. Global MEMS Probe Cards for Storage Average Price by Application (2021-2032) & (US\$/Unit)

Figure 44. North America MEMS Probe Cards for Storage Sales Quantity Market Share by Type (2021-2032)

Figure 45. North America MEMS Probe Cards for Storage Sales Quantity Market Share by Application (2021-2032)

Figure 46. North America MEMS Probe Cards for Storage Sales Quantity Market Share by Country (2021-2032)

Figure 47. North America MEMS Probe Cards for Storage Consumption Value Market Share by Country (2021-2032)

Figure 48. United States MEMS Probe Cards for Storage Consumption Value (2021-2032) & (USD Million)

Figure 49. Canada MEMS Probe Cards for Storage Consumption Value (2021-2032) & (USD Million)

Figure 50. Mexico MEMS Probe Cards for Storage Consumption Value (2021-2032) & (USD Million)

Figure 51. Europe MEMS Probe Cards for Storage Sales Quantity Market Share by Type (2021-2032)

Figure 52. Europe MEMS Probe Cards for Storage Sales Quantity Market Share by Application (2021-2032)

Figure 53. Europe MEMS Probe Cards for Storage Sales Quantity Market Share by Country (2021-2032)

Figure 54. Europe MEMS Probe Cards for Storage Consumption Value Market Share by Country (2021-2032)

Figure 55. Germany MEMS Probe Cards for Storage Consumption Value (2021-2032) & (USD Million)

Figure 56. France MEMS Probe Cards for Storage Consumption Value (2021-2032) & (USD Million)

Figure 57. United Kingdom MEMS Probe Cards for Storage Consumption Value (2021-2032) & (USD Million)

Figure 58. Russia MEMS Probe Cards for Storage Consumption Value (2021-2032) & (USD Million)

Figure 59. Italy MEMS Probe Cards for Storage Consumption Value (2021-2032) & (USD Million)

Figure 60. Asia-Pacific MEMS Probe Cards for Storage Sales Quantity Market Share by Type (2021-2032)

Figure 61. Asia-Pacific MEMS Probe Cards for Storage Sales Quantity Market Share by Application (2021-2032)

Figure 62. Asia-Pacific MEMS Probe Cards for Storage Sales Quantity Market Share by Region (2021-2032)

Figure 63. Asia-Pacific MEMS Probe Cards for Storage Consumption Value Market Share by Region (2021-2032)

Figure 64. China MEMS Probe Cards for Storage Consumption Value (2021-2032) &

(USD Million)

Figure 65. Japan MEMS Probe Cards for Storage Consumption Value (2021-2032) & (USD Million)

Figure 66. South Korea MEMS Probe Cards for Storage Consumption Value (2021-2032) & (USD Million)

Figure 67. India MEMS Probe Cards for Storage Consumption Value (2021-2032) & (USD Million)

Figure 68. Southeast Asia MEMS Probe Cards for Storage Consumption Value (2021-2032) & (USD Million)

Figure 69. Australia MEMS Probe Cards for Storage Consumption Value (2021-2032) & (USD Million)

Figure 70. South America MEMS Probe Cards for Storage Sales Quantity Market Share by Type (2021-2032)

Figure 71. South America MEMS Probe Cards for Storage Sales Quantity Market Share by Application (2021-2032)

Figure 72. South America MEMS Probe Cards for Storage Sales Quantity Market Share by Country (2021-2032)

Figure 73. South America MEMS Probe Cards for Storage Consumption Value Market Share by Country (2021-2032)

Figure 74. Brazil MEMS Probe Cards for Storage Consumption Value (2021-2032) & (USD Million)

Figure 75. Argentina MEMS Probe Cards for Storage Consumption Value (2021-2032) & (USD Million)

Figure 76. Middle East & Africa MEMS Probe Cards for Storage Sales Quantity Market Share by Type (2021-2032)

Figure 77. Middle East & Africa MEMS Probe Cards for Storage Sales Quantity Market Share by Application (2021-2032)

Figure 78. Middle East & Africa MEMS Probe Cards for Storage Sales Quantity Market Share by Country (2021-2032)

Figure 79. Middle East & Africa MEMS Probe Cards for Storage Consumption Value Market Share by Country (2021-2032)

Figure 80. Turkey MEMS Probe Cards for Storage Consumption Value (2021-2032) & (USD Million)

Figure 81. Egypt MEMS Probe Cards for Storage Consumption Value (2021-2032) & (USD Million)

Figure 82. Saudi Arabia MEMS Probe Cards for Storage Consumption Value (2021-2032) & (USD Million)

Figure 83. South Africa MEMS Probe Cards for Storage Consumption Value (2021-2032) & (USD Million)

Figure 84. MEMS Probe Cards for Storage Market Drivers

Figure 85. MEMS Probe Cards for Storage Market Restraints

Figure 86. MEMS Probe Cards for Storage Market Trends

Figure 87. Porters Five Forces Analysis

Figure 88. Manufacturing Cost Structure Analysis of MEMS Probe Cards for Storage in 2025

Figure 89. Manufacturing Process Analysis of MEMS Probe Cards for Storage

Figure 90. MEMS Probe Cards for Storage Industrial Chain

Figure 91. Sales Channel: Direct to End-User vs Distributors

Figure 92. Direct Channel Pros & Cons

Figure 93. Indirect Channel Pros & Cons

Figure 94. Methodology

Figure 95. Research Process and Data Source

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