

Global Digital Compass MEMS Foundry Service Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Digital Compass MEMS Foundry Service market size is expected to reach \$ 130 million by 2032, rising at a market growth of 7.3% CAGR during the forecast period (2026-2032).

Digital compass refers to MEMS magnetic field sensor. A MEMS magnetic field sensor is a small-scale microelectromechanical systems (MEMS) device for detecting and measuring magnetic fields (Magnetometer). Many of these operate by detecting effects of the Lorentz force: a change in voltage or resonant frequency may be measured electronically, or a mechanical displacement may be measured optically. Compensation for temperature effects is necessary. Its use as a miniaturized compass may be one such simple example application.

Digital Compass MEMS Foundry Service for prototype fabrication through to mass production, from leaders in the manufacture of MEMS devices. At the foundry they offer services with high quality and reliability: advanced process development, prototyping, and low to medium volume manufacturing. The industry's average gross profit margin, influenced by technological complexity, capacity utilization, and customer structure, typically ranges from 35% to 50%.

Market drivers primarily include the following:

Emerging Technology Convergence Drives Explosive Demand

The rapid development of technologies such as the Internet of Things (IoT), 5G, and artificial intelligence is driving the evolution of digital compass MEMS sensors towards intelligence and low power consumption. For example, AR/VR devices require high-precision digital compasses for head tracking, autonomous vehicles rely on multi-sensor fusion for path planning, and industrial robots use digital compasses for vibration monitoring and fault warning.

Automotive Electronics and High-End Manufacturing Upgrades Drive Technological Iteration

The widespread adoption of new energy vehicles and intelligent driving technologies places higher demands on sensor accuracy and reliability. Automotive-grade digital compasses must meet the AEC-Q100 certification standard and maintain stable performance in extreme environments ranging from -40° to 125°. Meanwhile, the surge in demand for six-axis IMUs (Inertial Measurement Units) from high-end equipment such as industrial robots and drones is driving foundries to break through in areas of high precision and low power consumption.

Domestic substitution and vertical integration are reshaping the competitive landscape. Against the backdrop of global supply chain restructuring, domestic companies are accelerating the process of domestic substitution through technological breakthroughs and capacity expansion. Leading foundries are extending upstream into the design stage through vertical integration strategies to enhance process synergy, while simultaneously deploying advanced packaging technologies (such as TSV through-silicon vias) to increase product added value. Furthermore, local governments are attracting international manufacturers to establish R&D centers in China through industrial funds and tax incentives, further promoting technology diffusion and industrial upgrading.

This report studies the global Digital Compass MEMS Foundry Service demand, key companies, and key regions.

This report is a detailed and comprehensive analysis of the world market for Digital Compass MEMS Foundry Service, 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 Digital Compass MEMS Foundry Service that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Digital Compass MEMS Foundry Service total market, 2021-2032, (USD Million)

Global Digital Compass MEMS Foundry Service total market by region & country, CAGR, 2021-2032, (USD Million)

U.S. VS China: Digital Compass MEMS Foundry Service total market, key domestic companies, and share, (USD Million)

Global Digital Compass MEMS Foundry Service revenue by player, revenue and market share 2021-2026, (USD Million)

Global Digital Compass MEMS Foundry Service total market by Type, CAGR, 2021-2032, (USD Million)

Global Digital Compass MEMS Foundry Service total market by Application, CAGR, 2021-2032, (USD Million)

This report profiles major players in the global Digital Compass MEMS Foundry Service market based on the following parameters - company overview, revenue, gross margin,

product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Silex Microsystems, Teledyne Technologies, TSMC, Sony, X-Fab, Atomica Corp., VIS, Asia Pacific Microsystems, Inc., Philips Engineering Solutions, UMC, 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 Digital Compass MEMS Foundry Service market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), by player, by regions, by Type, 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 Digital Compass MEMS Foundry Service Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Digital Compass MEMS Foundry Service Market, Segmentation by Type:

Pure Play Model

IDM Model

Global Digital Compass MEMS Foundry Service Market, Segmentation by Product Forms:

Physical Sensors

Chemical Sensors

Biosensors

Global Digital Compass MEMS Foundry Service Market, Segmentation by Functional Category:

Single-axis Sensor

Multi-axis Combined Sensor

Global Digital Compass MEMS Foundry Service Market, Segmentation by Application:

Automotive

Aircraft

Consumer Electronics

Other

Companies Profiled:

Silex Microsystems

Teledyne Technologies

TSMC

Sony

X-Fab

Atomica Corp.

VIS

Asia Pacific Microsystems, Inc.

Philips Engineering Solutions

UMC

Key Questions Answered

1. How big is the global Digital Compass MEMS Foundry Service market?
2. What is the demand of the global Digital Compass MEMS Foundry Service market?
3. What is the year over year growth of the global Digital Compass MEMS Foundry Service market?
4. What is the total value of the global Digital Compass MEMS Foundry Service market?
5. Who are the Major Players in the global Digital Compass MEMS Foundry Service market?
6. What are the growth factors driving the market demand?

Contents

1 SUPPLY SUMMARY

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

2 DEMAND SUMMARY

- 2.1 World Digital Compass MEMS Foundry Service Consumption Value (2021-2032)
- 2.2 World Digital Compass MEMS Foundry Service Consumption Value by Region
 - 2.2.1 World Digital Compass MEMS Foundry Service Consumption Value by Region (2021-2026)
 - 2.2.2 World Digital Compass MEMS Foundry Service Consumption Value Forecast by Region (2027-2032)
- 2.3 United States Digital Compass MEMS Foundry Service Consumption Value

(2021-2032)

2.4 China Digital Compass MEMS Foundry Service Consumption Value (2021-2032)

2.5 Europe Digital Compass MEMS Foundry Service Consumption Value (2021-2032)

2.6 Japan Digital Compass MEMS Foundry Service Consumption Value (2021-2032)

2.7 South Korea Digital Compass MEMS Foundry Service Consumption Value
(2021-2032)

2.8 ASEAN Digital Compass MEMS Foundry Service Consumption Value (2021-2032)

2.9 India Digital Compass MEMS Foundry Service Consumption Value (2021-2032)

3 WORLD DIGITAL COMPASS MEMS FOUNDRY SERVICE COMPANIES COMPETITIVE ANALYSIS

3.1 World Digital Compass MEMS Foundry Service Revenue by Player (2021-2026)

3.2 Industry Rank and Concentration Rate (CR)

3.2.1 Global Digital Compass MEMS Foundry Service Industry Rank of Major Players

3.2.2 Global Concentration Ratios (CR4) for Digital Compass MEMS Foundry Service
in 2025

3.2.3 Global Concentration Ratios (CR8) for Digital Compass MEMS Foundry Service
in 2025

3.3 Digital Compass MEMS Foundry Service Company Evaluation Quadrant

3.4 Digital Compass MEMS Foundry Service Market: Overall Company Footprint
Analysis

3.4.1 Digital Compass MEMS Foundry Service Market: Region Footprint

3.4.2 Digital Compass MEMS Foundry Service Market: Company Product Type
Footprint

3.4.3 Digital Compass MEMS Foundry Service 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: Digital Compass MEMS Foundry Service Revenue
Comparison (by Headquarter Location)

4.1.1 United States VS China: Digital Compass MEMS Foundry Service Revenue

Comparison (2021 & 2025 & 2032) (by Headquarter Location)

4.1.2 United States VS China: Digital Compass MEMS Foundry Service Revenue Market Share Comparison (2021 & 2025 & 2032)

4.2 United States Based Companies VS China Based Companies: Digital Compass MEMS Foundry Service Consumption Value Comparison

4.2.1 United States VS China: Digital Compass MEMS Foundry Service Consumption Value Comparison (2021 & 2025 & 2032)

4.2.2 United States VS China: Digital Compass MEMS Foundry Service Consumption Value Market Share Comparison (2021 & 2025 & 2032)

4.3 United States Based Digital Compass MEMS Foundry Service Companies and Market Share, 2021-2026

4.3.1 United States Based Digital Compass MEMS Foundry Service Companies, Headquarters (States, Country)

4.3.2 United States Based Companies Digital Compass MEMS Foundry Service Revenue, (2021-2026)

4.4 China Based Companies Digital Compass MEMS Foundry Service Revenue and Market Share, 2021-2026

4.4.1 China Based Digital Compass MEMS Foundry Service Companies, Company Headquarters (Province, Country)

4.4.2 China Based Companies Digital Compass MEMS Foundry Service Revenue, (2021-2026)

4.5 Rest of World Based Digital Compass MEMS Foundry Service Companies and Market Share, 2021-2026

4.5.1 Rest of World Based Digital Compass MEMS Foundry Service Companies, Headquarters (Province, Country)

4.5.2 Rest of World Based Companies Digital Compass MEMS Foundry Service Revenue (2021-2026)

5 MARKET ANALYSIS BY TYPE

5.1 World Digital Compass MEMS Foundry Service Market Size Overview by Type: 2021 VS 2025 VS 2032

5.2 Segment Introduction by Type

5.2.1 Pure Play Model

5.2.2 IDM Model

5.3 Market Segment by Type

5.3.1 World Digital Compass MEMS Foundry Service Market Size by Type (2021-2026)

5.3.2 World Digital Compass MEMS Foundry Service Market Size by Type

(2027-2032)

5.3.3 World Digital Compass MEMS Foundry Service Market Size Market Share by Type (2027-2032)

6 MARKET ANALYSIS BY PRODUCT FORMS

6.1 World Digital Compass MEMS Foundry Service Market Size Overview by Product Forms: 2021 VS 2025 VS 2032

6.2 Segment Introduction by Product Forms

6.2.1 Physical Sensors

6.2.2 Chemical Sensors

6.2.3 Biosensors

6.3 Market Segment by Product Forms

6.3.1 World Digital Compass MEMS Foundry Service Market Size by Product Forms (2021-2026)

6.3.2 World Digital Compass MEMS Foundry Service Market Size by Product Forms (2027-2032)

6.3.3 World Digital Compass MEMS Foundry Service Market Size Market Share by Product Forms (2027-2032)

7 MARKET ANALYSIS BY FUNCTIONAL CATEGORY

7.1 World Digital Compass MEMS Foundry Service Market Size Overview by Functional Category: 2021 VS 2025 VS 2032

7.2 Segment Introduction by Functional Category

7.2.1 Single-axis Sensor

7.2.2 Multi-axis Combined Sensor

7.3 Market Segment by Functional Category

7.3.1 World Digital Compass MEMS Foundry Service Market Size by Functional Category (2021-2026)

7.3.2 World Digital Compass MEMS Foundry Service Market Size by Functional Category (2027-2032)

7.3.3 World Digital Compass MEMS Foundry Service Market Size Market Share by Functional Category (2027-2032)

8 MARKET ANALYSIS BY APPLICATION

8.1 World Digital Compass MEMS Foundry Service Market Size Overview by Application: 2021 VS 2025 VS 2032

8.2 Segment Introduction by Application

8.2.1 Automotive

8.2.2 Aircraft

8.2.3 Consumer Electronics

8.2.4 Other

8.3 Market Segment by Application

8.3.1 World Digital Compass MEMS Foundry Service Market Size by Application (2021-2026)

8.3.2 World Digital Compass MEMS Foundry Service Market Size by Application (2027-2032)

8.3.3 World Digital Compass MEMS Foundry Service Market Size Market Share by Application (2021-2032)

9 COMPANY PROFILES

9.1 Silex Microsystems

9.1.1 Silex Microsystems Details

9.1.2 Silex Microsystems Major Business

9.1.3 Silex Microsystems Digital Compass MEMS Foundry Service Product and Services

9.1.4 Silex Microsystems Digital Compass MEMS Foundry Service Revenue, Gross Margin and Market Share (2021-2026)

9.1.5 Silex Microsystems Recent Developments/Updates

9.1.6 Silex Microsystems Competitive Strengths & Weaknesses

9.2 Teledyne Technologies

9.2.1 Teledyne Technologies Details

9.2.2 Teledyne Technologies Major Business

9.2.3 Teledyne Technologies Digital Compass MEMS Foundry Service Product and Services

9.2.4 Teledyne Technologies Digital Compass MEMS Foundry Service Revenue, Gross Margin and Market Share (2021-2026)

9.2.5 Teledyne Technologies Recent Developments/Updates

9.2.6 Teledyne Technologies Competitive Strengths & Weaknesses

9.3 TSMC

9.3.1 TSMC Details

9.3.2 TSMC Major Business

9.3.3 TSMC Digital Compass MEMS Foundry Service Product and Services

9.3.4 TSMC Digital Compass MEMS Foundry Service Revenue, Gross Margin and Market Share (2021-2026)

- 9.3.5 TSMC Recent Developments/Updates
- 9.3.6 TSMC Competitive Strengths & Weaknesses
- 9.4 Sony
 - 9.4.1 Sony Details
 - 9.4.2 Sony Major Business
 - 9.4.3 Sony Digital Compass MEMS Foundry Service Product and Services
 - 9.4.4 Sony Digital Compass MEMS Foundry Service Revenue, Gross Margin and Market Share (2021-2026)
 - 9.4.5 Sony Recent Developments/Updates
 - 9.4.6 Sony Competitive Strengths & Weaknesses
- 9.5 X-Fab
 - 9.5.1 X-Fab Details
 - 9.5.2 X-Fab Major Business
 - 9.5.3 X-Fab Digital Compass MEMS Foundry Service Product and Services
 - 9.5.4 X-Fab Digital Compass MEMS Foundry Service Revenue, Gross Margin and Market Share (2021-2026)
 - 9.5.5 X-Fab Recent Developments/Updates
 - 9.5.6 X-Fab Competitive Strengths & Weaknesses
- 9.6 Atomica Corp.
 - 9.6.1 Atomica Corp. Details
 - 9.6.2 Atomica Corp. Major Business
 - 9.6.3 Atomica Corp. Digital Compass MEMS Foundry Service Product and Services
 - 9.6.4 Atomica Corp. Digital Compass MEMS Foundry Service Revenue, Gross Margin and Market Share (2021-2026)
 - 9.6.5 Atomica Corp. Recent Developments/Updates
 - 9.6.6 Atomica Corp. Competitive Strengths & Weaknesses
- 9.7 VIS
 - 9.7.1 VIS Details
 - 9.7.2 VIS Major Business
 - 9.7.3 VIS Digital Compass MEMS Foundry Service Product and Services
 - 9.7.4 VIS Digital Compass MEMS Foundry Service Revenue, Gross Margin and Market Share (2021-2026)
 - 9.7.5 VIS Recent Developments/Updates
 - 9.7.6 VIS Competitive Strengths & Weaknesses
- 9.8 Asia Pacific Microsystems, Inc.
 - 9.8.1 Asia Pacific Microsystems, Inc. Details
 - 9.8.2 Asia Pacific Microsystems, Inc. Major Business
 - 9.8.3 Asia Pacific Microsystems, Inc. Digital Compass MEMS Foundry Service Product and Services

9.8.4 Asia Pacific Microsystems, Inc. Digital Compass MEMS Foundry Service Revenue, Gross Margin and Market Share (2021-2026)

9.8.5 Asia Pacific Microsystems, Inc. Recent Developments/Updates

9.8.6 Asia Pacific Microsystems, Inc. Competitive Strengths & Weaknesses

9.9 Philips Engineering Solutions

9.9.1 Philips Engineering Solutions Details

9.9.2 Philips Engineering Solutions Major Business

9.9.3 Philips Engineering Solutions Digital Compass MEMS Foundry Service Product and Services

9.9.4 Philips Engineering Solutions Digital Compass MEMS Foundry Service Revenue, Gross Margin and Market Share (2021-2026)

9.9.5 Philips Engineering Solutions Recent Developments/Updates

9.9.6 Philips Engineering Solutions Competitive Strengths & Weaknesses

9.10 UMC

9.10.1 UMC Details

9.10.2 UMC Major Business

9.10.3 UMC Digital Compass MEMS Foundry Service Product and Services

9.10.4 UMC Digital Compass MEMS Foundry Service Revenue, Gross Margin and Market Share (2021-2026)

9.10.5 UMC Recent Developments/Updates

9.10.6 UMC Competitive Strengths & Weaknesses

10 INDUSTRY CHAIN ANALYSIS

10.1 Digital Compass MEMS Foundry Service Industry Chain

10.2 Digital Compass MEMS Foundry Service Upstream Analysis

10.3 Digital Compass MEMS Foundry Service Midstream Analysis

10.4 Digital Compass MEMS Foundry Service Downstream Analysis

11 RESEARCH FINDINGS AND CONCLUSION

12 APPENDIX

12.1 Methodology

12.2 Research Process and Data Source

12.3 Disclaimer

List Of Tables

LIST OF TABLES

Table 1. World Digital Compass MEMS Foundry Service Revenue by Region (2021, 2025 and 2032) & (USD Million), (by Headquarter Location)

Table 2. World Digital Compass MEMS Foundry Service Revenue by Region (2021-2026) & (USD Million), (by Headquarter Location)

Table 3. World Digital Compass MEMS Foundry Service Revenue by Region (2027-2032) & (USD Million), (by Headquarter Location)

Table 4. World Digital Compass MEMS Foundry Service Revenue Market Share by Region (2021-2026), (by Headquarter Location)

Table 5. World Digital Compass MEMS Foundry Service Revenue Market Share by Region (2027-2032), (by Headquarter Location)

Table 6. Major Market Trends

Table 7. World Digital Compass MEMS Foundry Service Consumption Value Growth Rate Forecast by Region (2021 & 2025 & 2032) & (USD Million)

Table 8. World Digital Compass MEMS Foundry Service Consumption Value by Region (2021-2026) & (USD Million)

Table 9. World Digital Compass MEMS Foundry Service Consumption Value Forecast by Region (2027-2032) & (USD Million)

Table 10. World Digital Compass MEMS Foundry Service Revenue by Player (2021-2026) & (USD Million)

Table 11. Revenue Market Share of Key Digital Compass MEMS Foundry Service Players in 2025

Table 12. World Digital Compass MEMS Foundry Service Industry Rank of Major Player, Based on Revenue in 2025

Table 13. Global Digital Compass MEMS Foundry Service Company Evaluation Quadrant

Table 14. Head Office of Key Digital Compass MEMS Foundry Service Players

Table 15. Digital Compass MEMS Foundry Service Market: Company Product Type Footprint

Table 16. Digital Compass MEMS Foundry Service Market: Company Product Application Footprint

Table 17. Digital Compass MEMS Foundry Service Mergers & Acquisitions Activity

Table 18. United States VS China Digital Compass MEMS Foundry Service Revenue Comparison, (2021 & 2025 & 2032) & (USD Million)

Table 19. United States VS China Digital Compass MEMS Foundry Service Consumption Value Comparison, (2021 & 2025 & 2032) & (USD Million)

Table 20. United States Based Digital Compass MEMS Foundry Service Companies, Headquarters (States, Country)

Table 21. United States Based Companies Digital Compass MEMS Foundry Service Revenue, (2021-2026) & (USD Million)

Table 22. United States Based Companies Digital Compass MEMS Foundry Service Revenue Market Share (2021-2026)

Table 23. China Based Digital Compass MEMS Foundry Service Companies, Headquarters (Province, Country)

Table 24. China Based Companies Digital Compass MEMS Foundry Service Revenue, (2021-2026) & (USD Million)

Table 25. China Based Companies Digital Compass MEMS Foundry Service Revenue Market Share (2021-2026)

Table 26. Rest of World Based Digital Compass MEMS Foundry Service Companies, Headquarters (Province, Country)

Table 27. Rest of World Based Companies Digital Compass MEMS Foundry Service Revenue (2021-2026) & (USD Million)

Table 28. Rest of World Based Companies Digital Compass MEMS Foundry Service Revenue Market Share (2021-2026)

Table 29. World Digital Compass MEMS Foundry Service Market Size by Type, (USD Million), 2021 & 2025 & 2032

Table 30. World Digital Compass MEMS Foundry Service Market Size Value by Type (2021-2026) & (USD Million)

Table 31. World Digital Compass MEMS Foundry Service Market Size by Type (2027-2032) & (USD Million)

Table 32. World Digital Compass MEMS Foundry Service Market Size by Product Forms, (USD Million), 2021 & 2025 & 2032

Table 33. World Digital Compass MEMS Foundry Service Market Size Value by Product Forms (2021-2026) & (USD Million)

Table 34. World Digital Compass MEMS Foundry Service Market Size by Product Forms (2027-2032) & (USD Million)

Table 35. World Digital Compass MEMS Foundry Service Market Size by Functional Category, (USD Million), 2021 & 2025 & 2032

Table 36. World Digital Compass MEMS Foundry Service Market Size Value by Functional Category (2021-2026) & (USD Million)

Table 37. World Digital Compass MEMS Foundry Service Market Size by Functional Category (2027-2032) & (USD Million)

Table 38. World Digital Compass MEMS Foundry Service Market Size by Application, (USD Million), 2021 & 2025 & 2032

Table 39. World Digital Compass MEMS Foundry Service Market Size by Application

(2021-2026) & (USD Million)

Table 40. World Digital Compass MEMS Foundry Service Market Size by Application (2027-2032) & (USD Million)

Table 41. Silex Microsystems Basic Information, Manufacturing Base and Competitors

Table 42. Silex Microsystems Major Business

Table 43. Silex Microsystems Digital Compass MEMS Foundry Service Product and Services

Table 44. Silex Microsystems Digital Compass MEMS Foundry Service Revenue, Gross Margin and Market Share (2021-2026) & (USD Million)

Table 45. Silex Microsystems Recent Developments/Updates

Table 46. Silex Microsystems Competitive Strengths & Weaknesses

Table 47. Teledyne Technologies Basic Information, Manufacturing Base and Competitors

Table 48. Teledyne Technologies Major Business

Table 49. Teledyne Technologies Digital Compass MEMS Foundry Service Product and Services

Table 50. Teledyne Technologies Digital Compass MEMS Foundry Service Revenue, Gross Margin and Market Share (2021-2026) & (USD Million)

Table 51. Teledyne Technologies Recent Developments/Updates

Table 52. Teledyne Technologies Competitive Strengths & Weaknesses

Table 53. TSMC Basic Information, Manufacturing Base and Competitors

Table 54. TSMC Major Business

Table 55. TSMC Digital Compass MEMS Foundry Service Product and Services

Table 56. TSMC Digital Compass MEMS Foundry Service Revenue, Gross Margin and Market Share (2021-2026) & (USD Million)

Table 57. TSMC Recent Developments/Updates

Table 58. TSMC Competitive Strengths & Weaknesses

Table 59. Sony Basic Information, Manufacturing Base and Competitors

Table 60. Sony Major Business

Table 61. Sony Digital Compass MEMS Foundry Service Product and Services

Table 62. Sony Digital Compass MEMS Foundry Service Revenue, Gross Margin and Market Share (2021-2026) & (USD Million)

Table 63. Sony Recent Developments/Updates

Table 64. Sony Competitive Strengths & Weaknesses

Table 65. X-Fab Basic Information, Manufacturing Base and Competitors

Table 66. X-Fab Major Business

Table 67. X-Fab Digital Compass MEMS Foundry Service Product and Services

Table 68. X-Fab Digital Compass MEMS Foundry Service Revenue, Gross Margin and Market Share (2021-2026) & (USD Million)

- Table 69. X-Fab Recent Developments/Updates
- Table 70. X-Fab Competitive Strengths & Weaknesses
- Table 71. Atomica Corp. Basic Information, Manufacturing Base and Competitors
- Table 72. Atomica Corp. Major Business
- Table 73. Atomica Corp. Digital Compass MEMS Foundry Service Product and Services
- Table 74. Atomica Corp. Digital Compass MEMS Foundry Service Revenue, Gross Margin and Market Share (2021-2026) & (USD Million)
- Table 75. Atomica Corp. Recent Developments/Updates
- Table 76. Atomica Corp. Competitive Strengths & Weaknesses
- Table 77. VIS Basic Information, Manufacturing Base and Competitors
- Table 78. VIS Major Business
- Table 79. VIS Digital Compass MEMS Foundry Service Product and Services
- Table 80. VIS Digital Compass MEMS Foundry Service Revenue, Gross Margin and Market Share (2021-2026) & (USD Million)
- Table 81. VIS Recent Developments/Updates
- Table 82. VIS Competitive Strengths & Weaknesses
- Table 83. Asia Pacific Microsystems, Inc. Basic Information, Manufacturing Base and Competitors
- Table 84. Asia Pacific Microsystems, Inc. Major Business
- Table 85. Asia Pacific Microsystems, Inc. Digital Compass MEMS Foundry Service Product and Services
- Table 86. Asia Pacific Microsystems, Inc. Digital Compass MEMS Foundry Service Revenue, Gross Margin and Market Share (2021-2026) & (USD Million)
- Table 87. Asia Pacific Microsystems, Inc. Recent Developments/Updates
- Table 88. Asia Pacific Microsystems, Inc. Competitive Strengths & Weaknesses
- Table 89. Philips Engineering Solutions Basic Information, Manufacturing Base and Competitors
- Table 90. Philips Engineering Solutions Major Business
- Table 91. Philips Engineering Solutions Digital Compass MEMS Foundry Service Product and Services
- Table 92. Philips Engineering Solutions Digital Compass MEMS Foundry Service Revenue, Gross Margin and Market Share (2021-2026) & (USD Million)
- Table 93. Philips Engineering Solutions Recent Developments/Updates
- Table 94. Philips Engineering Solutions Competitive Strengths & Weaknesses
- Table 95. UMC Basic Information, Manufacturing Base and Competitors
- Table 96. UMC Major Business
- Table 97. UMC Digital Compass MEMS Foundry Service Product and Services
- Table 98. UMC Digital Compass MEMS Foundry Service Revenue, Gross Margin and Market Share (2021-2026) & (USD Million)

Table 99. UMC Recent Developments/Updates

Table 100. UMC Competitive Strengths & Weaknesses

Table 101. Global Key Players of Digital Compass MEMS Foundry Service Upstream
(Raw Materials)

Table 102. Global Digital Compass MEMS Foundry Service Typical Customers

List Of Figures

LIST OF FIGURES

Figure 1. Digital Compass MEMS Foundry Service Picture

Figure 2. World Digital Compass MEMS Foundry Service Total Revenue: 2021 & 2025 & 2032, (USD Million)

Figure 3. World Digital Compass MEMS Foundry Service Total Revenue (2021-2032) & (USD Million)

Figure 4. World Digital Compass MEMS Foundry Service Revenue by Region (2021, 2025 and 2032) & (USD Million), (by Headquarter Location)

Figure 5. World Digital Compass MEMS Foundry Service Revenue Market Share by Region (2021-2032), (by Headquarter Location)

Figure 6. United States Based Company Digital Compass MEMS Foundry Service Revenue (2021-2032) & (USD Million)

Figure 7. China Based Company Digital Compass MEMS Foundry Service Revenue (2021-2032) & (USD Million)

Figure 8. Europe Based Company Digital Compass MEMS Foundry Service Revenue (2021-2032) & (USD Million)

Figure 9. Japan Based Company Digital Compass MEMS Foundry Service Revenue (2021-2032) & (USD Million)

Figure 10. South Korea Based Company Digital Compass MEMS Foundry Service Revenue (2021-2032) & (USD Million)

Figure 11. ASEAN Based Company Digital Compass MEMS Foundry Service Revenue (2021-2032) & (USD Million)

Figure 12. India Based Company Digital Compass MEMS Foundry Service Revenue (2021-2032) & (USD Million)

Figure 13. Digital Compass MEMS Foundry Service Market Drivers

Figure 14. Factors Affecting Demand

Figure 15. World Digital Compass MEMS Foundry Service Consumption Value (2021-2032) & (USD Million)

Figure 16. World Digital Compass MEMS Foundry Service Consumption Value Market Share by Region (2021-2032)

Figure 17. United States Digital Compass MEMS Foundry Service Consumption Value (2021-2032) & (USD Million)

Figure 18. China Digital Compass MEMS Foundry Service Consumption Value (2021-2032) & (USD Million)

Figure 19. Europe Digital Compass MEMS Foundry Service Consumption Value (2021-2032) & (USD Million)

Figure 20. Japan Digital Compass MEMS Foundry Service Consumption Value (2021-2032) & (USD Million)

Figure 21. South Korea Digital Compass MEMS Foundry Service Consumption Value (2021-2032) & (USD Million)

Figure 22. ASEAN Digital Compass MEMS Foundry Service Consumption Value (2021-2032) & (USD Million)

Figure 23. India Digital Compass MEMS Foundry Service Consumption Value (2021-2032) & (USD Million)

Figure 24. Producer Shipments of Digital Compass MEMS Foundry Service by Player Revenue (\$MM) and Market Share (%): 2025

Figure 25. Global Four-firm Concentration Ratios (CR4) for Digital Compass MEMS Foundry Service Markets in 2025

Figure 26. Global Four-firm Concentration Ratios (CR8) for Digital Compass MEMS Foundry Service Markets in 2025

Figure 27. United States VS China: Digital Compass MEMS Foundry Service Revenue Market Share Comparison (2021 & 2025 & 2032)

Figure 28. United States VS China: Digital Compass MEMS Foundry Service Consumption Value Market Share Comparison (2021 & 2025 & 2032)

Figure 29. World Digital Compass MEMS Foundry Service Market Size by Type, (USD Million), 2021 & 2025 & 2032

Figure 30. World Digital Compass MEMS Foundry Service Market Size Market Share by Type in 2025

Figure 31. Pure Play Model

Figure 32. IDM Model

Figure 33. World Digital Compass MEMS Foundry Service Market Size Market Share by Type (2021-2032)

Figure 34. World Digital Compass MEMS Foundry Service Market Size by Product Forms, (USD Million), 2021 & 2025 & 2032

Figure 35. World Digital Compass MEMS Foundry Service Market Size Market Share by Product Forms in 2025

Figure 36. Physical Sensors

Figure 37. Chemical Sensors

Figure 38. Biosensors

Figure 39. World Digital Compass MEMS Foundry Service Market Size Market Share by Product Forms (2021-2032)

Figure 40. World Digital Compass MEMS Foundry Service Market Size by Functional Category, (USD Million), 2021 & 2025 & 2032

Figure 41. World Digital Compass MEMS Foundry Service Market Size Market Share by Functional Category in 2025

Figure 42. Single-axis Sensor

Figure 43. Multi-axis Combined Sensor

Figure 44. World Digital Compass MEMS Foundry Service Market Size Market Share by Functional Category (2021-2032)

Figure 45. World Digital Compass MEMS Foundry Service Market Size by Application, (USD Million), 2021 & 2025 & 2032

Figure 46. World Digital Compass MEMS Foundry Service Market Size Market Share by Application in 2025

Figure 47. Automotive

Figure 48. Aircraft

Figure 49. Consumer Electronics

Figure 50. Other

Figure 51. World Digital Compass MEMS Foundry Service Market Size Market Share by Application (2021-2032)

Figure 52. Digital Compass MEMS Foundry Service Industrial Chain

Figure 53. Methodology

Figure 54. Research Process and Data Source

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