

Global Sigma-Delta Modulators 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 Sigma-Delta Modulators market size was valued at US\$ 2464 million in 2025 and is forecast to a readjusted size of US\$ 4287 million by 2032 with a CAGR of 8.2% during review period.

In 2025, global Sigma-Delta Modulator output reached about 6 billion unit and global capacity of around 9 billion unit. The average price is about USD 0.4 per unit, with gross margins near 33%. Sigma-Delta Modulators are high-resolution analog-to-digital (ADC) or digital-to-analog (DAC) conversion circuits that use oversampling and noise shaping techniques to convert analog signals into high-precision digital bitstreams (or vice versa), widely used in audio, precision measurement, and sensor interfaces. Their supply chain starts upstream with semiconductor raw materials (high-purity silicon wafers, photoresists, specialty gases) and EDA design tools/IP cores; midstream involves IC design companies (developing mixed-signal architectures and Sigma-Delta IP), foundries (CMOS wafer fabrication), and OSAT providers (assembly, packaging, and testing); downstream includes module/system integrators embedding these modulators into data converters, microcontrollers, audio codecs, and sensor interface ICs, which are then supplied to end-use industries such as consumer electronics, automotive electronics, industrial automation, medical devices, and telecommunications equipment.

This report is a detailed and comprehensive analysis for global Sigma-Delta Modulators 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 Sigma-Delta Modulators market size and forecasts, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2021-2032

Global Sigma-Delta Modulators 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 Sigma-Delta Modulators 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 Sigma-Delta Modulators 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 Sigma-Delta Modulators
- 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 Sigma-Delta Modulators 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 Analog Devices, Texas Instruments, STMicroelectronics, Infineon, NXP Semiconductors, Renesas Electronics, Microchip, ON Semiconductor, ROHM Semiconductor, Asahi Kasei Microdevices, etc.

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

Market Segmentation

Sigma-Delta Modulators 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

Analog-to-Digital Modulators

Digital-to-Analog Modulators

Market segment by Sampling Method

Continuous Time Method

Discrete Time Method

Market segment by Application

Consumer Electronics

Industrial Equipment

Medical Devices

Automotive

Telecommunications

Others

Major players covered

Analog Devices

Texas Instruments

STMicroelectronics

Infineon

NXP Semiconductors

Renesas Electronics

Microchip

ON Semiconductor

ROHM Semiconductor

Asahi Kasei Microdevices

Realtek Semiconductor

Nisshinbo Micro Devices

Qualcomm Technologies

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 Sigma-Delta Modulators product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Sigma-Delta Modulators, with price, sales quantity, revenue, and global market share of Sigma-Delta Modulators from 2021 to 2026.

Chapter 3, the Sigma-Delta Modulators competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Sigma-Delta Modulators 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 Sigma-Delta Modulators 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 Sigma-Delta Modulators.

Chapter 14 and 15, to describe Sigma-Delta Modulators 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 Sigma-Delta Modulators Consumption Value by Type: 2021 Versus 2025 Versus 2032
 - 1.3.2 Analog-to-Digital Modulators
 - 1.3.3 Digital-to-Analog Modulators
- 1.4 Market Analysis by Sampling Method
 - 1.4.1 Overview: Global Sigma-Delta Modulators Consumption Value by Sampling Method: 2021 Versus 2025 Versus 2032
 - 1.4.2 Continuous Time Method
 - 1.4.3 Discrete Time Method
- 1.5 Market Analysis by Application
 - 1.5.1 Overview: Global Sigma-Delta Modulators Consumption Value by Application: 2021 Versus 2025 Versus 2032
 - 1.5.2 Consumer Electronics
 - 1.5.3 Industrial Equipment
 - 1.5.4 Medical Devices
 - 1.5.5 Automotive
 - 1.5.6 Telecommunications
 - 1.5.7 Others
- 1.6 Global Sigma-Delta Modulators Market Size & Forecast
 - 1.6.1 Global Sigma-Delta Modulators Consumption Value (2021 & 2025 & 2032)
 - 1.6.2 Global Sigma-Delta Modulators Sales Quantity (2021-2032)
 - 1.6.3 Global Sigma-Delta Modulators Average Price (2021-2032)

2 MANUFACTURERS PROFILES

- 2.1 Analog Devices
 - 2.1.1 Analog Devices Details
 - 2.1.2 Analog Devices Major Business
 - 2.1.3 Analog Devices Sigma-Delta Modulators Product and Services
 - 2.1.4 Analog Devices Sigma-Delta Modulators Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
 - 2.1.5 Analog Devices Recent Developments/Updates

2.2 Texas Instruments

2.2.1 Texas Instruments Details

2.2.2 Texas Instruments Major Business

2.2.3 Texas Instruments Sigma-Delta Modulators Product and Services

2.2.4 Texas Instruments Sigma-Delta Modulators Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

2.2.5 Texas Instruments Recent Developments/Updates

2.3 STMicroelectronics

2.3.1 STMicroelectronics Details

2.3.2 STMicroelectronics Major Business

2.3.3 STMicroelectronics Sigma-Delta Modulators Product and Services

2.3.4 STMicroelectronics Sigma-Delta Modulators Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

2.3.5 STMicroelectronics Recent Developments/Updates

2.4 Infineon

2.4.1 Infineon Details

2.4.2 Infineon Major Business

2.4.3 Infineon Sigma-Delta Modulators Product and Services

2.4.4 Infineon Sigma-Delta Modulators Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

2.4.5 Infineon Recent Developments/Updates

2.5 NXP Semiconductors

2.5.1 NXP Semiconductors Details

2.5.2 NXP Semiconductors Major Business

2.5.3 NXP Semiconductors Sigma-Delta Modulators Product and Services

2.5.4 NXP Semiconductors Sigma-Delta Modulators Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

2.5.5 NXP Semiconductors Recent Developments/Updates

2.6 Renesas Electronics

2.6.1 Renesas Electronics Details

2.6.2 Renesas Electronics Major Business

2.6.3 Renesas Electronics Sigma-Delta Modulators Product and Services

2.6.4 Renesas Electronics Sigma-Delta Modulators Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

2.6.5 Renesas Electronics Recent Developments/Updates

2.7 Microchip

2.7.1 Microchip Details

2.7.2 Microchip Major Business

2.7.3 Microchip Sigma-Delta Modulators Product and Services

2.7.4 Microchip Sigma-Delta Modulators Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

2.7.5 Microchip Recent Developments/Updates

2.8 ON Semiconductor

2.8.1 ON Semiconductor Details

2.8.2 ON Semiconductor Major Business

2.8.3 ON Semiconductor Sigma-Delta Modulators Product and Services

2.8.4 ON Semiconductor Sigma-Delta Modulators Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

2.8.5 ON Semiconductor Recent Developments/Updates

2.9 ROHM Semiconductor

2.9.1 ROHM Semiconductor Details

2.9.2 ROHM Semiconductor Major Business

2.9.3 ROHM Semiconductor Sigma-Delta Modulators Product and Services

2.9.4 ROHM Semiconductor Sigma-Delta Modulators Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

2.9.5 ROHM Semiconductor Recent Developments/Updates

2.10 Asahi Kasei Microdevices

2.10.1 Asahi Kasei Microdevices Details

2.10.2 Asahi Kasei Microdevices Major Business

2.10.3 Asahi Kasei Microdevices Sigma-Delta Modulators Product and Services

2.10.4 Asahi Kasei Microdevices Sigma-Delta Modulators Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

2.10.5 Asahi Kasei Microdevices Recent Developments/Updates

2.11 Realtek Semiconductor

2.11.1 Realtek Semiconductor Details

2.11.2 Realtek Semiconductor Major Business

2.11.3 Realtek Semiconductor Sigma-Delta Modulators Product and Services

2.11.4 Realtek Semiconductor Sigma-Delta Modulators Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

2.11.5 Realtek Semiconductor Recent Developments/Updates

2.12 Nisshinbo Micro Devices

2.12.1 Nisshinbo Micro Devices Details

2.12.2 Nisshinbo Micro Devices Major Business

2.12.3 Nisshinbo Micro Devices Sigma-Delta Modulators Product and Services

2.12.4 Nisshinbo Micro Devices Sigma-Delta Modulators Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

2.12.5 Nisshinbo Micro Devices Recent Developments/Updates

2.13 Qualcomm Technologies

- 2.13.1 Qualcomm Technologies Details
- 2.13.2 Qualcomm Technologies Major Business
- 2.13.3 Qualcomm Technologies Sigma-Delta Modulators Product and Services
- 2.13.4 Qualcomm Technologies Sigma-Delta Modulators Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
- 2.13.5 Qualcomm Technologies Recent Developments/Updates

3 COMPETITIVE ENVIRONMENT: SIGMA-DELTA MODULATORS BY MANUFACTURER

- 3.1 Global Sigma-Delta Modulators Sales Quantity by Manufacturer (2021-2026)
- 3.2 Global Sigma-Delta Modulators Revenue by Manufacturer (2021-2026)
- 3.3 Global Sigma-Delta Modulators Average Price by Manufacturer (2021-2026)
- 3.4 Market Share Analysis (2025)
 - 3.4.1 Producer Shipments of Sigma-Delta Modulators by Manufacturer Revenue (\$MM) and Market Share (%): 2025
 - 3.4.2 Top 3 Sigma-Delta Modulators Manufacturer Market Share in 2025
 - 3.4.3 Top 6 Sigma-Delta Modulators Manufacturer Market Share in 2025
- 3.5 Sigma-Delta Modulators Market: Overall Company Footprint Analysis
 - 3.5.1 Sigma-Delta Modulators Market: Region Footprint
 - 3.5.2 Sigma-Delta Modulators Market: Company Product Type Footprint
 - 3.5.3 Sigma-Delta Modulators 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 Sigma-Delta Modulators Market Size by Region
 - 4.1.1 Global Sigma-Delta Modulators Sales Quantity by Region (2021-2032)
 - 4.1.2 Global Sigma-Delta Modulators Consumption Value by Region (2021-2032)
 - 4.1.3 Global Sigma-Delta Modulators Average Price by Region (2021-2032)
- 4.2 North America Sigma-Delta Modulators Consumption Value (2021-2032)
- 4.3 Europe Sigma-Delta Modulators Consumption Value (2021-2032)
- 4.4 Asia-Pacific Sigma-Delta Modulators Consumption Value (2021-2032)
- 4.5 South America Sigma-Delta Modulators Consumption Value (2021-2032)
- 4.6 Middle East & Africa Sigma-Delta Modulators Consumption Value (2021-2032)

5 MARKET SEGMENT BY TYPE

- 5.1 Global Sigma-Delta Modulators Sales Quantity by Type (2021-2032)
- 5.2 Global Sigma-Delta Modulators Consumption Value by Type (2021-2032)
- 5.3 Global Sigma-Delta Modulators Average Price by Type (2021-2032)

6 MARKET SEGMENT BY APPLICATION

- 6.1 Global Sigma-Delta Modulators Sales Quantity by Application (2021-2032)
- 6.2 Global Sigma-Delta Modulators Consumption Value by Application (2021-2032)
- 6.3 Global Sigma-Delta Modulators Average Price by Application (2021-2032)

7 NORTH AMERICA

- 7.1 North America Sigma-Delta Modulators Sales Quantity by Type (2021-2032)
- 7.2 North America Sigma-Delta Modulators Sales Quantity by Application (2021-2032)
- 7.3 North America Sigma-Delta Modulators Market Size by Country
 - 7.3.1 North America Sigma-Delta Modulators Sales Quantity by Country (2021-2032)
 - 7.3.2 North America Sigma-Delta Modulators 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 Sigma-Delta Modulators Sales Quantity by Type (2021-2032)
- 8.2 Europe Sigma-Delta Modulators Sales Quantity by Application (2021-2032)
- 8.3 Europe Sigma-Delta Modulators Market Size by Country
 - 8.3.1 Europe Sigma-Delta Modulators Sales Quantity by Country (2021-2032)
 - 8.3.2 Europe Sigma-Delta Modulators 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 Sigma-Delta Modulators Sales Quantity by Type (2021-2032)
- 9.2 Asia-Pacific Sigma-Delta Modulators Sales Quantity by Application (2021-2032)

9.3 Asia-Pacific Sigma-Delta Modulators Market Size by Region

- 9.3.1 Asia-Pacific Sigma-Delta Modulators Sales Quantity by Region (2021-2032)
- 9.3.2 Asia-Pacific Sigma-Delta Modulators 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 Sigma-Delta Modulators Sales Quantity by Type (2021-2032)
- 10.2 South America Sigma-Delta Modulators Sales Quantity by Application (2021-2032)
- 10.3 South America Sigma-Delta Modulators Market Size by Country
 - 10.3.1 South America Sigma-Delta Modulators Sales Quantity by Country (2021-2032)
 - 10.3.2 South America Sigma-Delta Modulators 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 Sigma-Delta Modulators Sales Quantity by Type (2021-2032)
- 11.2 Middle East & Africa Sigma-Delta Modulators Sales Quantity by Application (2021-2032)
- 11.3 Middle East & Africa Sigma-Delta Modulators Market Size by Country
 - 11.3.1 Middle East & Africa Sigma-Delta Modulators Sales Quantity by Country (2021-2032)
 - 11.3.2 Middle East & Africa Sigma-Delta Modulators 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 Sigma-Delta Modulators Market Drivers

12.2 Sigma-Delta Modulators Market Restraints

12.3 Sigma-Delta Modulators 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 Sigma-Delta Modulators and Key Manufacturers

13.2 Manufacturing Costs Percentage of Sigma-Delta Modulators

13.3 Sigma-Delta Modulators 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 Sigma-Delta Modulators Typical Distributors

14.3 Sigma-Delta Modulators 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 Sigma-Delta Modulators Consumption Value by Type, (USD Million), 2021 & 2025 & 2032

Table 2. Global Sigma-Delta Modulators Consumption Value by Sampling Method, (USD Million), 2021 & 2025 & 2032

Table 3. Global Sigma-Delta Modulators Consumption Value by Application, (USD Million), 2021 & 2025 & 2032

Table 4. Analog Devices Basic Information, Manufacturing Base and Competitors

Table 5. Analog Devices Major Business

Table 6. Analog Devices Sigma-Delta Modulators Product and Services

Table 7. Analog Devices Sigma-Delta Modulators Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 8. Analog Devices Recent Developments/Updates

Table 9. Texas Instruments Basic Information, Manufacturing Base and Competitors

Table 10. Texas Instruments Major Business

Table 11. Texas Instruments Sigma-Delta Modulators Product and Services

Table 12. Texas Instruments Sigma-Delta Modulators Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 13. Texas Instruments Recent Developments/Updates

Table 14. STMicroelectronics Basic Information, Manufacturing Base and Competitors

Table 15. STMicroelectronics Major Business

Table 16. STMicroelectronics Sigma-Delta Modulators Product and Services

Table 17. STMicroelectronics Sigma-Delta Modulators Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 18. STMicroelectronics Recent Developments/Updates

Table 19. Infineon Basic Information, Manufacturing Base and Competitors

Table 20. Infineon Major Business

Table 21. Infineon Sigma-Delta Modulators Product and Services

Table 22. Infineon Sigma-Delta Modulators Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 23. Infineon Recent Developments/Updates

Table 24. NXP Semiconductors Basic Information, Manufacturing Base and Competitors

Table 25. NXP Semiconductors Major Business

Table 26. NXP Semiconductors Sigma-Delta Modulators Product and Services

Table 27. NXP Semiconductors Sigma-Delta Modulators Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 28. NXP Semiconductors Recent Developments/Updates

Table 29. Renesas Electronics Basic Information, Manufacturing Base and Competitors

Table 30. Renesas Electronics Major Business

Table 31. Renesas Electronics Sigma-Delta Modulators Product and Services

Table 32. Renesas Electronics Sigma-Delta Modulators Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 33. Renesas Electronics Recent Developments/Updates

Table 34. Microchip Basic Information, Manufacturing Base and Competitors

Table 35. Microchip Major Business

Table 36. Microchip Sigma-Delta Modulators Product and Services

Table 37. Microchip Sigma-Delta Modulators Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 38. Microchip Recent Developments/Updates

Table 39. ON Semiconductor Basic Information, Manufacturing Base and Competitors

Table 40. ON Semiconductor Major Business

Table 41. ON Semiconductor Sigma-Delta Modulators Product and Services

Table 42. ON Semiconductor Sigma-Delta Modulators Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 43. ON Semiconductor Recent Developments/Updates

Table 44. ROHM Semiconductor Basic Information, Manufacturing Base and Competitors

Table 45. ROHM Semiconductor Major Business

Table 46. ROHM Semiconductor Sigma-Delta Modulators Product and Services

Table 47. ROHM Semiconductor Sigma-Delta Modulators Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 48. ROHM Semiconductor Recent Developments/Updates

Table 49. Asahi Kasei Microdevices Basic Information, Manufacturing Base and Competitors

Table 50. Asahi Kasei Microdevices Major Business

Table 51. Asahi Kasei Microdevices Sigma-Delta Modulators Product and Services

Table 52. Asahi Kasei Microdevices Sigma-Delta Modulators Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 53. Asahi Kasei Microdevices Recent Developments/Updates

Table 54. Realtek Semiconductor Basic Information, Manufacturing Base and Competitors

Table 55. Realtek Semiconductor Major Business

Table 56. Realtek Semiconductor Sigma-Delta Modulators Product and Services

Table 57. Realtek Semiconductor Sigma-Delta Modulators Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 58. Realtek Semiconductor Recent Developments/Updates

Table 59. Nisshinbo Micro Devices Basic Information, Manufacturing Base and Competitors

Table 60. Nisshinbo Micro Devices Major Business

Table 61. Nisshinbo Micro Devices Sigma-Delta Modulators Product and Services

Table 62. Nisshinbo Micro Devices Sigma-Delta Modulators Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 63. Nisshinbo Micro Devices Recent Developments/Updates

Table 64. Qualcomm Technologies Basic Information, Manufacturing Base and Competitors

Table 65. Qualcomm Technologies Major Business

Table 66. Qualcomm Technologies Sigma-Delta Modulators Product and Services

Table 67. Qualcomm Technologies Sigma-Delta Modulators Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 68. Qualcomm Technologies Recent Developments/Updates

Table 69. Global Sigma-Delta Modulators Sales Quantity by Manufacturer (2021-2026) & (K Units)

Table 70. Global Sigma-Delta Modulators Revenue by Manufacturer (2021-2026) & (USD Million)

Table 71. Global Sigma-Delta Modulators Average Price by Manufacturer (2021-2026) & (US\$/Unit)

Table 72. Market Position of Manufacturers in Sigma-Delta Modulators, (Tier 1, Tier 2, and Tier 3), Based on Revenue in 2025

Table 73. Head Office and Sigma-Delta Modulators Production Site of Key Manufacturer

Table 74. Sigma-Delta Modulators Market: Company Product Type Footprint

Table 75. Sigma-Delta Modulators Market: Company Product Application Footprint

Table 76. Sigma-Delta Modulators New Market Entrants and Barriers to Market Entry

Table 77. Sigma-Delta Modulators Mergers, Acquisition, Agreements, and

Collaborations

Table 78. Global Sigma-Delta Modulators Consumption Value by Region (2021-2025-2032) & (USD Million) & CAGR

Table 79. Global Sigma-Delta Modulators Sales Quantity by Region (2021-2026) & (K Units)

Table 80. Global Sigma-Delta Modulators Sales Quantity by Region (2027-2032) & (K Units)

Table 81. Global Sigma-Delta Modulators Consumption Value by Region (2021-2026) & (USD Million)

Table 82. Global Sigma-Delta Modulators Consumption Value by Region (2027-2032) & (USD Million)

Table 83. Global Sigma-Delta Modulators Average Price by Region (2021-2026) & (US\$/Unit)

Table 84. Global Sigma-Delta Modulators Average Price by Region (2027-2032) & (US\$/Unit)

Table 85. Global Sigma-Delta Modulators Sales Quantity by Type (2021-2026) & (K Units)

Table 86. Global Sigma-Delta Modulators Sales Quantity by Type (2027-2032) & (K Units)

Table 87. Global Sigma-Delta Modulators Consumption Value by Type (2021-2026) & (USD Million)

Table 88. Global Sigma-Delta Modulators Consumption Value by Type (2027-2032) & (USD Million)

Table 89. Global Sigma-Delta Modulators Average Price by Type (2021-2026) & (US\$/Unit)

Table 90. Global Sigma-Delta Modulators Average Price by Type (2027-2032) & (US\$/Unit)

Table 91. Global Sigma-Delta Modulators Sales Quantity by Application (2021-2026) & (K Units)

Table 92. Global Sigma-Delta Modulators Sales Quantity by Application (2027-2032) & (K Units)

Table 93. Global Sigma-Delta Modulators Consumption Value by Application (2021-2026) & (USD Million)

Table 94. Global Sigma-Delta Modulators Consumption Value by Application (2027-2032) & (USD Million)

Table 95. Global Sigma-Delta Modulators Average Price by Application (2021-2026) & (US\$/Unit)

Table 96. Global Sigma-Delta Modulators Average Price by Application (2027-2032) & (US\$/Unit)

Table 97. North America Sigma-Delta Modulators Sales Quantity by Type (2021-2026) & (K Units)

Table 98. North America Sigma-Delta Modulators Sales Quantity by Type (2027-2032) & (K Units)

Table 99. North America Sigma-Delta Modulators Sales Quantity by Application (2021-2026) & (K Units)

Table 100. North America Sigma-Delta Modulators Sales Quantity by Application (2027-2032) & (K Units)

Table 101. North America Sigma-Delta Modulators Sales Quantity by Country (2021-2026) & (K Units)

Table 102. North America Sigma-Delta Modulators Sales Quantity by Country (2027-2032) & (K Units)

Table 103. North America Sigma-Delta Modulators Consumption Value by Country (2021-2026) & (USD Million)

Table 104. North America Sigma-Delta Modulators Consumption Value by Country (2027-2032) & (USD Million)

Table 105. Europe Sigma-Delta Modulators Sales Quantity by Type (2021-2026) & (K Units)

Table 106. Europe Sigma-Delta Modulators Sales Quantity by Type (2027-2032) & (K Units)

Table 107. Europe Sigma-Delta Modulators Sales Quantity by Application (2021-2026) & (K Units)

Table 108. Europe Sigma-Delta Modulators Sales Quantity by Application (2027-2032) & (K Units)

Table 109. Europe Sigma-Delta Modulators Sales Quantity by Country (2021-2026) & (K Units)

Table 110. Europe Sigma-Delta Modulators Sales Quantity by Country (2027-2032) & (K Units)

Table 111. Europe Sigma-Delta Modulators Consumption Value by Country (2021-2026) & (USD Million)

Table 112. Europe Sigma-Delta Modulators Consumption Value by Country (2027-2032) & (USD Million)

Table 113. Asia-Pacific Sigma-Delta Modulators Sales Quantity by Type (2021-2026) & (K Units)

Table 114. Asia-Pacific Sigma-Delta Modulators Sales Quantity by Type (2027-2032) & (K Units)

Table 115. Asia-Pacific Sigma-Delta Modulators Sales Quantity by Application (2021-2026) & (K Units)

Table 116. Asia-Pacific Sigma-Delta Modulators Sales Quantity by Application

(2027-2032) & (K Units)

Table 117. Asia-Pacific Sigma-Delta Modulators Sales Quantity by Region (2021-2026) & (K Units)

Table 118. Asia-Pacific Sigma-Delta Modulators Sales Quantity by Region (2027-2032) & (K Units)

Table 119. Asia-Pacific Sigma-Delta Modulators Consumption Value by Region (2021-2026) & (USD Million)

Table 120. Asia-Pacific Sigma-Delta Modulators Consumption Value by Region (2027-2032) & (USD Million)

Table 121. South America Sigma-Delta Modulators Sales Quantity by Type (2021-2026) & (K Units)

Table 122. South America Sigma-Delta Modulators Sales Quantity by Type (2027-2032) & (K Units)

Table 123. South America Sigma-Delta Modulators Sales Quantity by Application (2021-2026) & (K Units)

Table 124. South America Sigma-Delta Modulators Sales Quantity by Application (2027-2032) & (K Units)

Table 125. South America Sigma-Delta Modulators Sales Quantity by Country (2021-2026) & (K Units)

Table 126. South America Sigma-Delta Modulators Sales Quantity by Country (2027-2032) & (K Units)

Table 127. South America Sigma-Delta Modulators Consumption Value by Country (2021-2026) & (USD Million)

Table 128. South America Sigma-Delta Modulators Consumption Value by Country (2027-2032) & (USD Million)

Table 129. Middle East & Africa Sigma-Delta Modulators Sales Quantity by Type (2021-2026) & (K Units)

Table 130. Middle East & Africa Sigma-Delta Modulators Sales Quantity by Type (2027-2032) & (K Units)

Table 131. Middle East & Africa Sigma-Delta Modulators Sales Quantity by Application (2021-2026) & (K Units)

Table 132. Middle East & Africa Sigma-Delta Modulators Sales Quantity by Application (2027-2032) & (K Units)

Table 133. Middle East & Africa Sigma-Delta Modulators Sales Quantity by Country (2021-2026) & (K Units)

Table 134. Middle East & Africa Sigma-Delta Modulators Sales Quantity by Country (2027-2032) & (K Units)

Table 135. Middle East & Africa Sigma-Delta Modulators Consumption Value by Country (2021-2026) & (USD Million)

Table 136. Middle East & Africa Sigma-Delta Modulators Consumption Value by Country (2027-2032) & (USD Million)

Table 137. Sigma-Delta Modulators Raw Material

Table 138. Key Manufacturers of Sigma-Delta Modulators Raw Materials

Table 139. Sigma-Delta Modulators Typical Distributors

Table 140. Sigma-Delta Modulators Typical Customers

List Of Figures

LIST OF FIGURES

- Figure 1. Sigma-Delta Modulators Picture
- Figure 2. Global Sigma-Delta Modulators Revenue by Type, (USD Million), 2021 & 2025 & 2032
- Figure 3. Global Sigma-Delta Modulators Revenue Market Share by Type in 2025
- Figure 4. Analog-to-Digital Modulators Examples
- Figure 5. Digital-to-Analog Modulators Examples
- Figure 6. Global Sigma-Delta Modulators Revenue by Sampling Method, (USD Million), 2021 & 2025 & 2032
- Figure 7. Global Sigma-Delta Modulators Revenue Market Share by Sampling Method in 2025
- Figure 8. Continuous Time Method Examples
- Figure 9. Discrete Time Method Examples
- Figure 10. Global Sigma-Delta Modulators Consumption Value by Application, (USD Million), 2021 & 2025 & 2032
- Figure 11. Global Sigma-Delta Modulators Revenue Market Share by Application in 2025
- Figure 12. Consumer Electronics Examples
- Figure 13. Industrial Equipment Examples
- Figure 14. Medical Devices Examples
- Figure 15. Automotive Examples
- Figure 16. Telecommunications Examples
- Figure 17. Others Examples
- Figure 18. Global Sigma-Delta Modulators Consumption Value, (USD Million): 2021 & 2025 & 2032
- Figure 19. Global Sigma-Delta Modulators Consumption Value and Forecast (2021-2032) & (USD Million)
- Figure 20. Global Sigma-Delta Modulators Sales Quantity (2021-2032) & (K Units)
- Figure 21. Global Sigma-Delta Modulators Price (2021-2032) & (US\$/Unit)
- Figure 22. Global Sigma-Delta Modulators Sales Quantity Market Share by Manufacturer in 2025
- Figure 23. Global Sigma-Delta Modulators Revenue Market Share by Manufacturer in 2025
- Figure 24. Producer Shipments of Sigma-Delta Modulators by Manufacturer Sales (\$MM) and Market Share (%): 2025
- Figure 25. Top 3 Sigma-Delta Modulators Manufacturer (Revenue) Market Share in

2025

Figure 26. Top 6 Sigma-Delta Modulators Manufacturer (Revenue) Market Share in 2025

Figure 27. Global Sigma-Delta Modulators Sales Quantity Market Share by Region (2021-2032)

Figure 28. Global Sigma-Delta Modulators Consumption Value Market Share by Region (2021-2032)

Figure 29. North America Sigma-Delta Modulators Consumption Value (2021-2032) & (USD Million)

Figure 30. Europe Sigma-Delta Modulators Consumption Value (2021-2032) & (USD Million)

Figure 31. Asia-Pacific Sigma-Delta Modulators Consumption Value (2021-2032) & (USD Million)

Figure 32. South America Sigma-Delta Modulators Consumption Value (2021-2032) & (USD Million)

Figure 33. Middle East & Africa Sigma-Delta Modulators Consumption Value (2021-2032) & (USD Million)

Figure 34. Global Sigma-Delta Modulators Sales Quantity Market Share by Type (2021-2032)

Figure 35. Global Sigma-Delta Modulators Consumption Value Market Share by Type (2021-2032)

Figure 36. Global Sigma-Delta Modulators Average Price by Type (2021-2032) & (US\$/Unit)

Figure 37. Global Sigma-Delta Modulators Sales Quantity Market Share by Application (2021-2032)

Figure 38. Global Sigma-Delta Modulators Revenue Market Share by Application (2021-2032)

Figure 39. Global Sigma-Delta Modulators Average Price by Application (2021-2032) & (US\$/Unit)

Figure 40. North America Sigma-Delta Modulators Sales Quantity Market Share by Type (2021-2032)

Figure 41. North America Sigma-Delta Modulators Sales Quantity Market Share by Application (2021-2032)

Figure 42. North America Sigma-Delta Modulators Sales Quantity Market Share by Country (2021-2032)

Figure 43. North America Sigma-Delta Modulators Consumption Value Market Share by Country (2021-2032)

Figure 44. United States Sigma-Delta Modulators Consumption Value (2021-2032) & (USD Million)

Figure 45. Canada Sigma-Delta Modulators Consumption Value (2021-2032) & (USD Million)

Figure 46. Mexico Sigma-Delta Modulators Consumption Value (2021-2032) & (USD Million)

Figure 47. Europe Sigma-Delta Modulators Sales Quantity Market Share by Type (2021-2032)

Figure 48. Europe Sigma-Delta Modulators Sales Quantity Market Share by Application (2021-2032)

Figure 49. Europe Sigma-Delta Modulators Sales Quantity Market Share by Country (2021-2032)

Figure 50. Europe Sigma-Delta Modulators Consumption Value Market Share by Country (2021-2032)

Figure 51. Germany Sigma-Delta Modulators Consumption Value (2021-2032) & (USD Million)

Figure 52. France Sigma-Delta Modulators Consumption Value (2021-2032) & (USD Million)

Figure 53. United Kingdom Sigma-Delta Modulators Consumption Value (2021-2032) & (USD Million)

Figure 54. Russia Sigma-Delta Modulators Consumption Value (2021-2032) & (USD Million)

Figure 55. Italy Sigma-Delta Modulators Consumption Value (2021-2032) & (USD Million)

Figure 56. Asia-Pacific Sigma-Delta Modulators Sales Quantity Market Share by Type (2021-2032)

Figure 57. Asia-Pacific Sigma-Delta Modulators Sales Quantity Market Share by Application (2021-2032)

Figure 58. Asia-Pacific Sigma-Delta Modulators Sales Quantity Market Share by Region (2021-2032)

Figure 59. Asia-Pacific Sigma-Delta Modulators Consumption Value Market Share by Region (2021-2032)

Figure 60. China Sigma-Delta Modulators Consumption Value (2021-2032) & (USD Million)

Figure 61. Japan Sigma-Delta Modulators Consumption Value (2021-2032) & (USD Million)

Figure 62. South Korea Sigma-Delta Modulators Consumption Value (2021-2032) & (USD Million)

Figure 63. India Sigma-Delta Modulators Consumption Value (2021-2032) & (USD Million)

Figure 64. Southeast Asia Sigma-Delta Modulators Consumption Value (2021-2032) &

(USD Million)

Figure 65. Australia Sigma-Delta Modulators Consumption Value (2021-2032) & (USD Million)

Figure 66. South America Sigma-Delta Modulators Sales Quantity Market Share by Type (2021-2032)

Figure 67. South America Sigma-Delta Modulators Sales Quantity Market Share by Application (2021-2032)

Figure 68. South America Sigma-Delta Modulators Sales Quantity Market Share by Country (2021-2032)

Figure 69. South America Sigma-Delta Modulators Consumption Value Market Share by Country (2021-2032)

Figure 70. Brazil Sigma-Delta Modulators Consumption Value (2021-2032) & (USD Million)

Figure 71. Argentina Sigma-Delta Modulators Consumption Value (2021-2032) & (USD Million)

Figure 72. Middle East & Africa Sigma-Delta Modulators Sales Quantity Market Share by Type (2021-2032)

Figure 73. Middle East & Africa Sigma-Delta Modulators Sales Quantity Market Share by Application (2021-2032)

Figure 74. Middle East & Africa Sigma-Delta Modulators Sales Quantity Market Share by Country (2021-2032)

Figure 75. Middle East & Africa Sigma-Delta Modulators Consumption Value Market Share by Country (2021-2032)

Figure 76. Turkey Sigma-Delta Modulators Consumption Value (2021-2032) & (USD Million)

Figure 77. Egypt Sigma-Delta Modulators Consumption Value (2021-2032) & (USD Million)

Figure 78. Saudi Arabia Sigma-Delta Modulators Consumption Value (2021-2032) & (USD Million)

Figure 79. South Africa Sigma-Delta Modulators Consumption Value (2021-2032) & (USD Million)

Figure 80. Sigma-Delta Modulators Market Drivers

Figure 81. Sigma-Delta Modulators Market Restraints

Figure 82. Sigma-Delta Modulators Market Trends

Figure 83. Porters Five Forces Analysis

Figure 84. Manufacturing Cost Structure Analysis of Sigma-Delta Modulators in 2025

Figure 85. Manufacturing Process Analysis of Sigma-Delta Modulators

Figure 86. Sigma-Delta Modulators Industrial Chain

Figure 87. Sales Channel: Direct to End-User vs Distributors

Figure 88. Direct Channel Pros & Cons

Figure 89. Indirect Channel Pros & Cons

Figure 90. Methodology

Figure 91. Research Process and Data Source

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