

Global Digitally Compensated Crystal Oscillators Market 2026 by Manufacturers, Regions, Type and Application, Forecast to 2032

<https://marketpublishers.com/r/GCE56FFA854DEN.html>

Date: July 2026

Pages: 89

Price: US\$ 3,480.00 (Single User License)

ID: GCE56FFA854DEN

Abstracts

According to our (Global Info Research) latest study, the global Digitally Compensated Crystal Oscillators market size was valued at US\$ 1245 million in 2025 and is forecast to a readjusted size of US\$ 2019 million by 2032 with a CAGR of 7.1% during review period.

In 2025, global Digitally Compensated Crystal Oscillator output reached about 1.2 billion units and global capacity of around 1.5 billion units. The average price is about USD 1 per unit, with gross margins near 36%. Digitally Compensated Crystal Oscillators (DCXOs) are high-precision frequency control devices that use a quartz crystal resonator combined with digital compensation circuitry to automatically correct frequency variations caused by temperature changes, aging, voltage fluctuations, and manufacturing tolerances. Unlike conventional crystal oscillators, DCXOs employ integrated digital calibration algorithms, temperature sensors, and compensation tables stored in memory to achieve superior frequency stability, low power consumption, and precise timing performance. They are widely used in smartphones, wireless communication modules, GPS/GNSS receivers, IoT devices, network equipment, automotive electronics, industrial automation systems, and consumer electronics. The supply chain begins with upstream raw materials and components such as synthetic quartz crystals, semiconductor wafers, MEMS sensors, packaging substrates, and passive electronic components supplied by crystal growers, semiconductor foundries, and material manufacturers. Midstream activities involve crystal cutting and processing, IC design, compensation algorithm development, oscillator assembly, frequency calibration, and packaging by specialized timing device manufacturers. Downstream customers include telecommunications equipment manufacturers, smartphone and wearable device producers, automotive electronics suppliers, aerospace and defense

contractors, industrial equipment manufacturers, and network infrastructure companies that integrate DCXOs into systems requiring accurate clock generation and synchronization.

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

Global Digitally Compensated Crystal Oscillators market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (Million Units), and average selling prices (US\$/Unit), 2021-2032

Global Digitally Compensated Crystal Oscillators market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (Million Units), and average selling prices (US\$/Unit), 2021-2032

Global Digitally Compensated Crystal Oscillators market shares of main players, shipments in revenue (\$ Million), sales quantity (Million 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 Digitally Compensated Crystal Oscillators

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 Digitally Compensated Crystal Oscillators 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 SiTime, Rakon, Seiko Epson, Nihon Dempa Kogyo, Daishinku, Kyocera, Murata Manufacturing, TXC Corporation, Tai-Saw Technology, Taitien Electronics, etc.

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

Market Segmentation

Digitally Compensated Crystal Oscillators 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

Standard Jitter (>1 ps RMS)

Low Jitter (0.5?1 ps RMS)

Ultra-Low Jitter (

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 Digitally Compensated Crystal Oscillators Consumption Value
by Type: 2021 Versus 2025 Versus 2032

1.3.2 Standard Jitter (>1 ps RMS)

1.3.3 Low Jitter (0.5?1 ps RMS)

1.3.4 Ultra-Low Jitter (

List Of Tables

LIST OF TABLES

- Table 1. Global Digitally Compensated Crystal Oscillators Consumption Value by Type, (USD Million), 2021 & 2025 & 2032
- Table 2. Global Digitally Compensated Crystal Oscillators Consumption Value by Startup Time, (USD Million), 2021 & 2025 & 2032
- Table 3. Global Digitally Compensated Crystal Oscillators Consumption Value by Application, (USD Million), 2021 & 2025 & 2032
- Table 4. SiTime Basic Information, Manufacturing Base and Competitors
- Table 5. SiTime Major Business
- Table 6. SiTime Digitally Compensated Crystal Oscillators Product and Services
- Table 7. SiTime Digitally Compensated Crystal Oscillators Sales Quantity (Million Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)
- Table 8. SiTime Recent Developments/Updates
- Table 9. Rakon Basic Information, Manufacturing Base and Competitors
- Table 10. Rakon Major Business
- Table 11. Rakon Digitally Compensated Crystal Oscillators Product and Services
- Table 12. Rakon Digitally Compensated Crystal Oscillators Sales Quantity (Million Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)
- Table 13. Rakon Recent Developments/Updates
- Table 14. Seiko Epson Basic Information, Manufacturing Base and Competitors
- Table 15. Seiko Epson Major Business
- Table 16. Seiko Epson Digitally Compensated Crystal Oscillators Product and Services
- Table 17. Seiko Epson Digitally Compensated Crystal Oscillators Sales Quantity (Million Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)
- Table 18. Seiko Epson Recent Developments/Updates
- Table 19. Nihon Dempa Kogyo Basic Information, Manufacturing Base and Competitors
- Table 20. Nihon Dempa Kogyo Major Business
- Table 21. Nihon Dempa Kogyo Digitally Compensated Crystal Oscillators Product and Services
- Table 22. Nihon Dempa Kogyo Digitally Compensated Crystal Oscillators Sales Quantity (Million Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)
- Table 23. Nihon Dempa Kogyo Recent Developments/Updates

Table 24. Daishinku Basic Information, Manufacturing Base and Competitors
Table 25. Daishinku Major Business
Table 26. Daishinku Digitally Compensated Crystal Oscillators Product and Services
Table 27. Daishinku Digitally Compensated Crystal Oscillators Sales Quantity (Million Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)
Table 28. Daishinku Recent Developments/Updates
Table 29. Kyocera Basic Information, Manufacturing Base and Competitors
Table 30. Kyocera Major Business
Table 31. Kyocera Digitally Compensated Crystal Oscillators Product and Services
Table 32. Kyocera Digitally Compensated Crystal Oscillators Sales Quantity (Million Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)
Table 33. Kyocera Recent Developments/Updates
Table 34. Murata Manufacturing Basic Information, Manufacturing Base and Competitors
Table 35. Murata Manufacturing Major Business
Table 36. Murata Manufacturing Digitally Compensated Crystal Oscillators Product and Services
Table 37. Murata Manufacturing Digitally Compensated Crystal Oscillators Sales Quantity (Million Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)
Table 38. Murata Manufacturing Recent Developments/Updates
Table 39. TXC Corporation Basic Information, Manufacturing Base and Competitors
Table 40. TXC Corporation Major Business
Table 41. TXC Corporation Digitally Compensated Crystal Oscillators Product and Services
Table 42. TXC Corporation Digitally Compensated Crystal Oscillators Sales Quantity (Million Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)
Table 43. TXC Corporation Recent Developments/Updates
Table 44. Tai-Saw Technology Basic Information, Manufacturing Base and Competitors
Table 45. Tai-Saw Technology Major Business
Table 46. Tai-Saw Technology Digitally Compensated Crystal Oscillators Product and Services
Table 47. Tai-Saw Technology Digitally Compensated Crystal Oscillators Sales Quantity (Million Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)
Table 48. Tai-Saw Technology Recent Developments/Updates

Table 49. Taitien Electronics Basic Information, Manufacturing Base and Competitors

Table 50. Taitien Electronics Major Business

Table 51. Taitien Electronics Digitally Compensated Crystal Oscillators Product and Services

Table 52. Taitien Electronics Digitally Compensated Crystal Oscillators Sales Quantity (Million Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 53. Taitien Electronics Recent Developments/Updates

Table 54. Global Digitally Compensated Crystal Oscillators Sales Quantity by Manufacturer (2021-2026) & (Million Units)

Table 55. Global Digitally Compensated Crystal Oscillators Revenue by Manufacturer (2021-2026) & (USD Million)

Table 56. Global Digitally Compensated Crystal Oscillators Average Price by Manufacturer (2021-2026) & (US\$/Unit)

Table 57. Market Position of Manufacturers in Digitally Compensated Crystal Oscillators, (Tier 1, Tier 2, and Tier 3), Based on Revenue in 2025

Table 58. Head Office and Digitally Compensated Crystal Oscillators Production Site of Key Manufacturer

Table 59. Digitally Compensated Crystal Oscillators Market: Company Product Type Footprint

Table 60. Digitally Compensated Crystal Oscillators Market: Company Product Application Footprint

Table 61. Digitally Compensated Crystal Oscillators New Market Entrants and Barriers to Market Entry

Table 62. Digitally Compensated Crystal Oscillators Mergers, Acquisition, Agreements, and Collaborations

Table 63. Global Digitally Compensated Crystal Oscillators Consumption Value by Region (2021-2025-2032) & (USD Million) & CAGR

Table 64. Global Digitally Compensated Crystal Oscillators Sales Quantity by Region (2021-2026) & (Million Units)

Table 65. Global Digitally Compensated Crystal Oscillators Sales Quantity by Region (2027-2032) & (Million Units)

Table 66. Global Digitally Compensated Crystal Oscillators Consumption Value by Region (2021-2026) & (USD Million)

Table 67. Global Digitally Compensated Crystal Oscillators Consumption Value by Region (2027-2032) & (USD Million)

Table 68. Global Digitally Compensated Crystal Oscillators Average Price by Region (2021-2026) & (US\$/Unit)

Table 69. Global Digitally Compensated Crystal Oscillators Average Price by Region

(2027-2032) & (US\$/Unit)

Table 70. Global Digitally Compensated Crystal Oscillators Sales Quantity by Type (2021-2026) & (Million Units)

Table 71. Global Digitally Compensated Crystal Oscillators Sales Quantity by Type (2027-2032) & (Million Units)

Table 72. Global Digitally Compensated Crystal Oscillators Consumption Value by Type (2021-2026) & (USD Million)

Table 73. Global Digitally Compensated Crystal Oscillators Consumption Value by Type (2027-2032) & (USD Million)

Table 74. Global Digitally Compensated Crystal Oscillators Average Price by Type (2021-2026) & (US\$/Unit)

Table 75. Global Digitally Compensated Crystal Oscillators Average Price by Type (2027-2032) & (US\$/Unit)

Table 76. Global Digitally Compensated Crystal Oscillators Sales Quantity by Application (2021-2026) & (Million Units)

Table 77. Global Digitally Compensated Crystal Oscillators Sales Quantity by Application (2027-2032) & (Million Units)

Table 78. Global Digitally Compensated Crystal Oscillators Consumption Value by Application (2021-2026) & (USD Million)

Table 79. Global Digitally Compensated Crystal Oscillators Consumption Value by Application (2027-2032) & (USD Million)

Table 80. Global Digitally Compensated Crystal Oscillators Average Price by Application (2021-2026) & (US\$/Unit)

Table 81. Global Digitally Compensated Crystal Oscillators Average Price by Application (2027-2032) & (US\$/Unit)

Table 82. North America Digitally Compensated Crystal Oscillators Sales Quantity by Type (2021-2026) & (Million Units)

Table 83. North America Digitally Compensated Crystal Oscillators Sales Quantity by Type (2027-2032) & (Million Units)

Table 84. North America Digitally Compensated Crystal Oscillators Sales Quantity by Application (2021-2026) & (Million Units)

Table 85. North America Digitally Compensated Crystal Oscillators Sales Quantity by Application (2027-2032) & (Million Units)

Table 86. North America Digitally Compensated Crystal Oscillators Sales Quantity by Country (2021-2026) & (Million Units)

Table 87. North America Digitally Compensated Crystal Oscillators Sales Quantity by Country (2027-2032) & (Million Units)

Table 88. North America Digitally Compensated Crystal Oscillators Consumption Value by Country (2021-2026) & (USD Million)

Table 89. North America Digitally Compensated Crystal Oscillators Consumption Value by Country (2027-2032) & (USD Million)

Table 90. Europe Digitally Compensated Crystal Oscillators Sales Quantity by Type (2021-2026) & (Million Units)

Table 91. Europe Digitally Compensated Crystal Oscillators Sales Quantity by Type (2027-2032) & (Million Units)

Table 92. Europe Digitally Compensated Crystal Oscillators Sales Quantity by Application (2021-2026) & (Million Units)

Table 93. Europe Digitally Compensated Crystal Oscillators Sales Quantity by Application (2027-2032) & (Million Units)

Table 94. Europe Digitally Compensated Crystal Oscillators Sales Quantity by Country (2021-2026) & (Million Units)

Table 95. Europe Digitally Compensated Crystal Oscillators Sales Quantity by Country (2027-2032) & (Million Units)

Table 96. Europe Digitally Compensated Crystal Oscillators Consumption Value by Country (2021-2026) & (USD Million)

Table 97. Europe Digitally Compensated Crystal Oscillators Consumption Value by Country (2027-2032) & (USD Million)

Table 98. Asia-Pacific Digitally Compensated Crystal Oscillators Sales Quantity by Type (2021-2026) & (Million Units)

Table 99. Asia-Pacific Digitally Compensated Crystal Oscillators Sales Quantity by Type (2027-2032) & (Million Units)

Table 100. Asia-Pacific Digitally Compensated Crystal Oscillators Sales Quantity by Application (2021-2026) & (Million Units)

Table 101. Asia-Pacific Digitally Compensated Crystal Oscillators Sales Quantity by Application (2027-2032) & (Million Units)

Table 102. Asia-Pacific Digitally Compensated Crystal Oscillators Sales Quantity by Region (2021-2026) & (Million Units)

Table 103. Asia-Pacific Digitally Compensated Crystal Oscillators Sales Quantity by Region (2027-2032) & (Million Units)

Table 104. Asia-Pacific Digitally Compensated Crystal Oscillators Consumption Value by Region (2021-2026) & (USD Million)

Table 105. Asia-Pacific Digitally Compensated Crystal Oscillators Consumption Value by Region (2027-2032) & (USD Million)

Table 106. South America Digitally Compensated Crystal Oscillators Sales Quantity by Type (2021-2026) & (Million Units)

Table 107. South America Digitally Compensated Crystal Oscillators Sales Quantity by Type (2027-2032) & (Million Units)

Table 108. South America Digitally Compensated Crystal Oscillators Sales Quantity by

Application (2021-2026) & (Million Units)

Table 109. South America Digitally Compensated Crystal Oscillators Sales Quantity by Application (2027-2032) & (Million Units)

Table 110. South America Digitally Compensated Crystal Oscillators Sales Quantity by Country (2021-2026) & (Million Units)

Table 111. South America Digitally Compensated Crystal Oscillators Sales Quantity by Country (2027-2032) & (Million Units)

Table 112. South America Digitally Compensated Crystal Oscillators Consumption Value by Country (2021-2026) & (USD Million)

Table 113. South America Digitally Compensated Crystal Oscillators Consumption Value by Country (2027-2032) & (USD Million)

Table 114. Middle East & Africa Digitally Compensated Crystal Oscillators Sales Quantity by Type (2021-2026) & (Million Units)

Table 115. Middle East & Africa Digitally Compensated Crystal Oscillators Sales Quantity by Type (2027-2032) & (Million Units)

Table 116. Middle East & Africa Digitally Compensated Crystal Oscillators Sales Quantity by Application (2021-2026) & (Million Units)

Table 117. Middle East & Africa Digitally Compensated Crystal Oscillators Sales Quantity by Application (2027-2032) & (Million Units)

Table 118. Middle East & Africa Digitally Compensated Crystal Oscillators Sales Quantity by Country (2021-2026) & (Million Units)

Table 119. Middle East & Africa Digitally Compensated Crystal Oscillators Sales Quantity by Country (2027-2032) & (Million Units)

Table 120. Middle East & Africa Digitally Compensated Crystal Oscillators Consumption Value by Country (2021-2026) & (USD Million)

Table 121. Middle East & Africa Digitally Compensated Crystal Oscillators Consumption Value by Country (2027-2032) & (USD Million)

Table 122. Digitally Compensated Crystal Oscillators Raw Material

Table 123. Key Manufacturers of Digitally Compensated Crystal Oscillators Raw Materials

Table 124. Digitally Compensated Crystal Oscillators Typical Distributors

Table 125. Digitally Compensated Crystal Oscillators Typical Customers

List Of Figures

LIST OF FIGURES

Figure 1. Digitally Compensated Crystal Oscillators Picture

Figure 2. Global Digitally Compensated Crystal Oscillators Revenue by Type, (USD Million), 2021 & 2025 & 2032

Figure 3. Global Digitally Compensated Crystal Oscillators Revenue Market Share by Type in 2025

Figure 4. Standard Jitter (>1 ps RMS) Examples

Figure 5. Low Jitter (0.5?1 ps RMS) Examples

Figure 6. Ultra-Low Jitter (

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