

Global Die-to-Die (D2D) IP Market Research Report 2025(Status and Outlook)

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Abstracts

Report Overview

Die-to-Die (D2D) IP refers to semiconductor intellectual property that enables high-speed, low-latency communication between multiple dies within a single package or across chiplets in advanced packaging architectures. It plays a critical role in heterogeneous integration, allowing different process nodes, functions, or memory types to work seamlessly together in systems like multi-chip modules (MCMs), 2.5D/3D ICs, and chiplet-based designs. The IP includes PHY (physical layer) and controller logic supporting protocols such as UCIe (Universal Chiplet Interconnect Express), BoW (Bunch of Wires), and proprietary interfaces, ensuring bandwidth scalability, power efficiency, and signal integrity. Its adoption is driven by the increasing complexity of SoCs, the need for modular design approaches, and the limitations of monolithic scaling, making D2D IP essential for AI/ML accelerators, high-performance computing, and data center applications. The market is evolving rapidly with standardization efforts and demand for interoperable solutions across foundries and vendors.

This report provides a deep insight into the global Die-to-Die (D2D) IP market covering all its essential aspects. This ranges from a macro overview of the market to micro details of the market size, competitive landscape, development trend, niche market, key market drivers and challenges, SWOT analysis, value chain analysis, etc.

The analysis helps the reader to shape the competition within the industries and strategies for the competitive environment to enhance the potential profit. Furthermore, it provides a simple framework for evaluating and accessing the position of the business organization. The report structure also focuses on the competitive landscape of the Global Die-to-Die (D2D) IP Market, this report introduces in detail the market share, market performance, product situation, operation situation, etc. of the main players,

which helps the readers in the industry to identify the main competitors and deeply understand the competition pattern of the market.

In a word, this report is a must-read for industry players, investors, researchers, consultants, business strategists, and all those who have any kind of stake or are planning to foray into the Die-to-Die (D2D) IP market in any manner.

Global Die-to-Die (D2D) IP Market: Market Segmentation Analysis

The research report includes specific segments by region (country), manufacturers, Type, and Application. Market segmentation creates subsets of a market based on product type, end-user or application, Geographic, and other factors. By understanding the market segments, the decision-maker can leverage this targeting in the product, sales, and marketing strategies. Market segments can power your product development cycles by informing how you create product offerings for different segments.

Key Company

Alphawave
Cadence
Synopsys
GLOBAL UNICHIP CORP. (GUC)
CEVA
Akrostar
M SQUARE

Market Segmentation (by Type)

Controller IP
PHY IP

Market Segmentation (by Application)

IDM
Foundry
Fabless Company

Geographic Segmentation

North America (USA, Canada, Mexico)
Europe (Germany, UK, France, Russia, Italy, Rest of Europe)
Asia-Pacific (China, Japan, South Korea, India, Southeast Asia, Rest of Asia-Pacific)
South America (Brazil, Argentina, Columbia, Rest of South America)

The Middle East and Africa (Saudi Arabia, UAE, Egypt, Nigeria, South Africa, Rest of MEA)

Key Benefits of This Market Research:

Industry drivers, restraints, and opportunities covered in the study

Neutral perspective on the market performance

Recent industry trends and developments

Competitive landscape & strategies of key players

Potential & niche segments and regions exhibiting promising growth covered

Historical, current, and projected market size, in terms of value

In-depth analysis of the Die-to-Die (D2D) IP Market

Overview of the regional outlook of the Die-to-Die (D2D) IP Market:

Customization of the Report

In case of any queries or customization requirements, please connect with our sales team, who will ensure that your requirements are met.

Chapter Outline

Chapter 1 mainly introduces the statistical scope of the report, market division standards, and market research methods.

Chapter 2 is an executive summary of different market segments (by region, product type, application, etc), including the market size of each market segment, future development potential, and so on. It offers a high-level view of the current state of the Die-to-Die (D2D) IP Market and its likely evolution in the short to mid-term, and long term.

Chapter 3 makes a detailed analysis of the market's competitive landscape of the market and provides the market share, capacity, output, price, latest development plan, merger, and acquisition information of the main manufacturers in the market.

Chapter 4 is the analysis of the whole market industrial chain, including the upstream and downstream of the industry, as well as Porter's five forces analysis.

Chapter 5 introduces the latest developments of the market, the driving factors and restrictive factors of the market, the challenges and risks faced by manufacturers in the industry, and the analysis of relevant policies in the industry.

Chapter 6 provides the analysis of various market segments according to product types,

covering the market size and development potential of each market segment, to help readers find the blue ocean market in different market segments.

Chapter 7 provides the analysis of various market segments according to application, covering the market size and development potential of each market segment, to help readers find the blue ocean market in different downstream markets.

Chapter 8 provides a quantitative analysis of the market size and development potential of each region and its main countries and introduces the market development, future development prospects, market space, and capacity of each country in the world.

Chapter 9 shares the main producing countries of Die-to-Die (D2D) IP, their output value, profit level, regional supply, production capacity layout, etc. from the supply side.

Chapter 10 introduces the basic situation of the main companies in the market in detail, including product sales revenue, sales volume, price, gross profit margin, market share, product introduction, recent development, etc.

Chapter 11 provides a quantitative analysis of the market size and development potential of each region in the next five years.

Chapter 12 provides a quantitative analysis of the market size and development potential of each market segment in the next five years.

Chapter 13 is the main points and conclusions of the report.

Key Reasons to Buy this Report:

Access to date statistics compiled by our researchers. These provide you with historical and forecast data, which is analyzed to tell you why your market is set to change

This enables you to anticipate market changes to remain ahead of your competitors

You will be able to copy data from the Excel spreadsheet straight into your marketing plans, business presentations, or other strategic documents

The concise analysis, clear graph, and table format will enable you to pinpoint the information you require quickly

Provision of market value data for each segment and sub-segment

Indicates the region and segment that is expected to witness the fastest growth as well as to dominate the market

Analysis by geography highlighting the consumption of the product/service in the region as well as indicating the factors that are affecting the market within each region

Competitive landscape which incorporates the market ranking of the major players, along with new service/product launches, partnerships, business expansions, and acquisitions in the past five years of companies profiled

Extensive company profiles comprising of company overview, company insights, product benchmarking, and SWOT analysis for the major market players

The current as well as the future market outlook of the industry concerning recent developments which involve growth opportunities and drivers as well as challenges and restraints of both emerging as well as developed regions

Includes in-depth analysis of the market from various perspectives through Porter's five forces analysis

Provides insight into the market through Value Chain

Market dynamics scenario, along with growth opportunities of the market in the years to come

6-month post-sales analyst support

Customization of the Report

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Contents

1 RESEARCH METHODOLOGY AND STATISTICAL SCOPE

- 1.1 Market Definition and Statistical Scope of Die-to-Die (D2D) IP
- 1.2 Key Market Segments
 - 1.2.1 Die-to-Die (D2D) IP Segment by Type
 - 1.2.2 Die-to-Die (D2D) IP Segment by Application
- 1.3 Methodology & Sources of Information
 - 1.3.1 Research Methodology
 - 1.3.2 Research Process
 - 1.3.3 Market Breakdown and Data Triangulation
 - 1.3.4 Base Year
 - 1.3.5 Report Assumptions & Caveats

2 DIE-TO-DIE (D2D) IP MARKET OVERVIEW

- 2.1 Global Market Overview
 - 2.1.1 Global Die-to-Die (D2D) IP Market Size (M USD) Estimates and Forecasts (2020-2033)
 - 2.1.2 Global Die-to-Die (D2D) IP Sales Estimates and Forecasts (2020-2033)
- 2.2 Market Segment Executive Summary
- 2.3 Global Market Size by Region

3 DIE-TO-DIE (D2D) IP MARKET COMPETITIVE LANDSCAPE

- 3.1 Company Assessment Quadrant
- 3.2 Global Die-to-Die (D2D) IP Product Life Cycle
- 3.3 Global Die-to-Die (D2D) IP Sales by Manufacturers (2020-2025)
- 3.4 Global Die-to-Die (D2D) IP Revenue Market Share by Manufacturers (2020-2025)
- 3.5 Die-to-Die (D2D) IP Market Share by Company Type (Tier 1, Tier 2, and Tier 3)
- 3.6 Global Die-to-Die (D2D) IP Average Price by Manufacturers (2020-2025)
- 3.7 Manufacturers? Manufacturing Sites, Areas Served, and Product Types
- 3.8 Die-to-Die (D2D) IP Market Competitive Situation and Trends
 - 3.8.1 Die-to-Die (D2D) IP Market Concentration Rate
 - 3.8.2 Global 5 and 10 Largest Die-to-Die (D2D) IP Players Market Share by Revenue
 - 3.8.3 Mergers & Acquisitions, Expansion

4 DIE-TO-DIE (D2D) IP INDUSTRY CHAIN ANALYSIS

- 4.1 Die-to-Die (D2D) IP Industry Chain Analysis
- 4.2 Market Overview of Key Raw Materials
- 4.3 Midstream Market Analysis
- 4.4 Downstream Customer Analysis

5 THE DEVELOPMENT AND DYNAMICS OF DIE-TO-DIE (D2D) IP MARKET

- 5.1 Key Development Trends
- 5.2 Driving Factors
- 5.3 Market Challenges
- 5.4 Industry News
 - 5.4.1 New Product Developments
 - 5.4.2 Mergers & Acquisitions
 - 5.4.3 Expansions
 - 5.4.4 Collaboration/Supply Contracts
- 5.5 PEST Analysis
 - 5.5.1 Industry Policies Analysis
 - 5.5.2 Economic Environment Analysis
 - 5.5.3 Social Environment Analysis
 - 5.5.4 Technological Environment Analysis
- 5.6 Global Die-to-Die (D2D) IP Market Porter's Five Forces Analysis
 - 5.6.1 Global Trade Frictions
 - 5.6.2 U.S. Tariff Policy ? April 2025
 - 5.6.3 Global Trade Frictions and Their Impacts to Die-to-Die (D2D) IP Market
- 5.7 ESG Ratings of Leading Companies

6 DIE-TO-DIE (D2D) IP MARKET SEGMENTATION BY TYPE

- 6.1 Evaluation Matrix of Segment Market Development Potential (Type)
- 6.2 Global Die-to-Die (D2D) IP Sales Market Share by Type (2020-2025)
- 6.3 Global Die-to-Die (D2D) IP Market Size Market Share by Type (2020-2025)
- 6.4 Global Die-to-Die (D2D) IP Price by Type (2020-2025)

7 DIE-TO-DIE (D2D) IP MARKET SEGMENTATION BY APPLICATION

- 7.1 Evaluation Matrix of Segment Market Development Potential (Application)
- 7.2 Global Die-to-Die (D2D) IP Market Sales by Application (2020-2025)
- 7.3 Global Die-to-Die (D2D) IP Market Size (M USD) by Application (2020-2025)

7.4 Global Die-to-Die (D2D) IP Sales Growth Rate by Application (2020-2025)

8 DIE-TO-DIE (D2D) IP MARKET SALES BY REGION

8.1 Global Die-to-Die (D2D) IP Sales by Region

8.1.1 Global Die-to-Die (D2D) IP Sales by Region

8.1.2 Global Die-to-Die (D2D) IP Sales Market Share by Region

8.2 Global Die-to-Die (D2D) IP Market Size by Region

8.2.1 Global Die-to-Die (D2D) IP Market Size by Region

8.2.2 Global Die-to-Die (D2D) IP Market Size Market Share by Region

8.3 North America

8.3.1 North America Die-to-Die (D2D) IP Sales by Country

8.3.2 North America Die-to-Die (D2D) IP Market Size by Country

8.3.3 U.S. Market Overview

8.3.4 Canada Market Overview

8.3.5 Mexico Market Overview

8.4 Europe

8.4.1 Europe Die-to-Die (D2D) IP Sales by Country

8.4.2 Europe Die-to-Die (D2D) IP Market Size by Country

8.4.3 Germany Market Overview

8.4.4 France Market Overview

8.4.5 U.K. Market Overview

8.4.6 Italy Market Overview

8.4.7 Spain Market Overview

8.5 Asia Pacific

8.5.1 Asia Pacific Die-to-Die (D2D) IP Sales by Region

8.5.2 Asia Pacific Die-to-Die (D2D) IP Market Size by Region

8.5.3 China Market Overview

8.5.4 Japan Market Overview

8.5.5 South Korea Market Overview

8.5.6 India Market Overview

8.5.7 Southeast Asia Market Overview

8.6 South America

8.6.1 South America Die-to-Die (D2D) IP Sales by Country

8.6.2 South America Die-to-Die (D2D) IP Market Size by Country

8.6.3 Brazil Market Overview

8.6.4 Argentina Market Overview

8.6.5 Columbia Market Overview

8.7 Middle East and Africa

- 8.7.1 Middle East and Africa Die-to-Die (D2D) IP Sales by Region
- 8.7.2 Middle East and Africa Die-to-Die (D2D) IP Market Size by Region
- 8.7.3 Saudi Arabia Market Overview
- 8.7.4 UAE Market Overview
- 8.7.5 Egypt Market Overview
- 8.7.6 Nigeria Market Overview
- 8.7.7 South Africa Market Overview

9 DIE-TO-DIE (D2D) IP MARKET PRODUCTION BY REGION

- 9.1 Global Production of Die-to-Die (D2D) IP by Region(2020-2025)
- 9.2 Global Die-to-Die (D2D) IP Revenue Market Share by Region (2020-2025)
- 9.3 Global Die-to-Die (D2D) IP Production, Revenue, Price and Gross Margin (2020-2025)
- 9.4 North America Die-to-Die (D2D) IP Production
 - 9.4.1 North America Die-to-Die (D2D) IP Production Growth Rate (2020-2025)
 - 9.4.2 North America Die-to-Die (D2D) IP Production, Revenue, Price and Gross Margin (2020-2025)
- 9.5 Europe Die-to-Die (D2D) IP Production
 - 9.5.1 Europe Die-to-Die (D2D) IP Production Growth Rate (2020-2025)
 - 9.5.2 Europe Die-to-Die (D2D) IP Production, Revenue, Price and Gross Margin (2020-2025)
- 9.6 Japan Die-to-Die (D2D) IP Production (2020-2025)
 - 9.6.1 Japan Die-to-Die (D2D) IP Production Growth Rate (2020-2025)
 - 9.6.2 Japan Die-to-Die (D2D) IP Production, Revenue, Price and Gross Margin (2020-2025)
- 9.7 China Die-to-Die (D2D) IP Production (2020-2025)
 - 9.7.1 China Die-to-Die (D2D) IP Production Growth Rate (2020-2025)
 - 9.7.2 China Die-to-Die (D2D) IP Production, Revenue, Price and Gross Margin (2020-2025)

10 KEY COMPANIES PROFILE

- 10.1 Alphawave
 - 10.1.1 Alphawave Basic Information
 - 10.1.2 Alphawave Die-to-Die (D2D) IP Product Overview
 - 10.1.3 Alphawave Die-to-Die (D2D) IP Product Market Performance
 - 10.1.4 Alphawave Business Overview
 - 10.1.5 Alphawave SWOT Analysis

- 10.1.6 Alphawave Recent Developments
- 10.2 Cadence
 - 10.2.1 Cadence Basic Information
 - 10.2.2 Cadence Die-to-Die (D2D) IP Product Overview
 - 10.2.3 Cadence Die-to-Die (D2D) IP Product Market Performance
 - 10.2.4 Cadence Business Overview
 - 10.2.5 Cadence SWOT Analysis
 - 10.2.6 Cadence Recent Developments
- 10.3 Synopsys
 - 10.3.1 Synopsys Basic Information
 - 10.3.2 Synopsys Die-to-Die (D2D) IP Product Overview
 - 10.3.3 Synopsys Die-to-Die (D2D) IP Product Market Performance
 - 10.3.4 Synopsys Business Overview
 - 10.3.5 Synopsys SWOT Analysis
 - 10.3.6 Synopsys Recent Developments
- 10.4 GLOBAL UNICHIP CORP. (GUC)
 - 10.4.1 GLOBAL UNICHIP CORP. (GUC) Basic Information
 - 10.4.2 GLOBAL UNICHIP CORP. (GUC) Die-to-Die (D2D) IP Product Overview
 - 10.4.3 GLOBAL UNICHIP CORP. (GUC) Die-to-Die (D2D) IP Product Market Performance
 - 10.4.4 GLOBAL UNICHIP CORP. (GUC) Business Overview
 - 10.4.5 GLOBAL UNICHIP CORP. (GUC) Recent Developments
- 10.5 CEVA
 - 10.5.1 CEVA Basic Information
 - 10.5.2 CEVA Die-to-Die (D2D) IP Product Overview
 - 10.5.3 CEVA Die-to-Die (D2D) IP Product Market Performance
 - 10.5.4 CEVA Business Overview
 - 10.5.5 CEVA Recent Developments
- 10.6 Akrostar
 - 10.6.1 Akrostar Basic Information
 - 10.6.2 Akrostar Die-to-Die (D2D) IP Product Overview
 - 10.6.3 Akrostar Die-to-Die (D2D) IP Product Market Performance
 - 10.6.4 Akrostar Business Overview
 - 10.6.5 Akrostar Recent Developments
- 10.7 M SQUARE
 - 10.7.1 M SQUARE Basic Information
 - 10.7.2 M SQUARE Die-to-Die (D2D) IP Product Overview
 - 10.7.3 M SQUARE Die-to-Die (D2D) IP Product Market Performance
 - 10.7.4 M SQUARE Business Overview

10.7.5 M SQUARE Recent Developments

11 DIE-TO-DIE (D2D) IP MARKET FORECAST BY REGION

11.1 Global Die-to-Die (D2D) IP Market Size Forecast

11.2 Global Die-to-Die (D2D) IP Market Forecast by Region

11.2.1 North America Market Size Forecast by Country

11.2.2 Europe Die-to-Die (D2D) IP Market Size Forecast by Country

11.2.3 Asia Pacific Die-to-Die (D2D) IP Market Size Forecast by Region

11.2.4 South America Die-to-Die (D2D) IP Market Size Forecast by Country

11.2.5 Middle East and Africa Forecasted Sales of Die-to-Die (D2D) IP by Country

12 FORECAST MARKET BY TYPE AND BY APPLICATION (2026-2033)

12.1 Global Die-to-Die (D2D) IP Market Forecast by Type (2026-2033)

12.1.1 Global Forecasted Sales of Die-to-Die (D2D) IP by Type (2026-2033)

12.1.2 Global Die-to-Die (D2D) IP Market Size Forecast by Type (2026-2033)

12.1.3 Global Forecasted Price of Die-to-Die (D2D) IP by Type (2026-2033)

12.2 Global Die-to-Die (D2D) IP Market Forecast by Application (2026-2033)

12.2.1 Global Die-to-Die (D2D) IP Sales (K MT) Forecast by Application

12.2.2 Global Die-to-Die (D2D) IP Market Size (M USD) Forecast by Application (2026-2033)

13 CONCLUSION AND KEY FINDINGS

List Of Tables

LIST OF TABLES

- Table 1. Introduction of the Type
- Table 2. Introduction of the Application
- Table 3. Market Size (M USD) Segment Executive Summary
- Table 4. Die-to-Die (D2D) IP Market Size Comparison by Region (M USD)
- Table 5. Global Die-to-Die (D2D) IP Sales (K MT) by Manufacturers (2020-2025)
- Table 6. Global Die-to-Die (D2D) IP Sales Market Share by Manufacturers (2020-2025)
- Table 7. Global Die-to-Die (D2D) IP Revenue (M USD) by Manufacturers (2020-2025)
- Table 8. Global Die-to-Die (D2D) IP Revenue Share by Manufacturers (2020-2025)
- Table 9. Company Type (Tier 1, Tier 2, and Tier 3) & (based on the Revenue in Die-to-Die (D2D) IP as of 2024)
- Table 10. Global Market Die-to-Die (D2D) IP Average Price (USD/KG) of Key Manufacturers (2020-2025)
- Table 11. Manufacturers? Manufacturing Sites, Areas Served
- Table 12. Manufacturers? Product Type
- Table 13. Global Die-to-Die (D2D) IP Manufacturers Market Concentration Ratio (CR5 and HHI)
- Table 14. Mergers & Acquisitions, Expansion Plans
- Table 15. Market Overview of Key Raw Materials
- Table 16. Midstream Market Analysis
- Table 17. Downstream Customer Analysis
- Table 18. Key Development Trends
- Table 19. Driving Factors
- Table 20. Die-to-Die (D2D) IP Market Challenges
- Table 21. Goldman Sachs' forecast real GDP growth rate for 2024-2026
- Table 22. S&P Global ' Forecast Real GDP Growth Rate For 2024-2027
- Table 23. World Bank ' Forecast Real GDP Growth Rate For 2024-2026
- Table 24. The Tariff Rates Imposed by the United States on Major Commodity Trading Countries
- Table 25. Global Die-to-Die (D2D) IP Sales by Type (K MT)
- Table 26. Global Die-to-Die (D2D) IP Market Size by Type (M USD)
- Table 27. Global Die-to-Die (D2D) IP Sales (K MT) by Type (2020-2025)
- Table 28. Global Die-to-Die (D2D) IP Sales Market Share by Type (2020-2025)
- Table 29. Global Die-to-Die (D2D) IP Market Size (M USD) by Type (2020-2025)
- Table 30. Global Die-to-Die (D2D) IP Market Size Share by Type (2020-2025)
- Table 31. Global Die-to-Die (D2D) IP Price (USD/KG) by Type (2020-2025)

- Table 32. Global Die-to-Die (D2D) IP Sales (K MT) by Application
- Table 33. Global Die-to-Die (D2D) IP Market Size by Application
- Table 34. Global Die-to-Die (D2D) IP Sales by Application (2020-2025) & (K MT)
- Table 35. Global Die-to-Die (D2D) IP Sales Market Share by Application (2020-2025)
- Table 36. Global Die-to-Die (D2D) IP Market Size by Application (2020-2025) & (M USD)
- Table 37. Global Die-to-Die (D2D) IP Market Share by Application (2020-2025)
- Table 38. Global Die-to-Die (D2D) IP Sales Growth Rate by Application (2020-2025)
- Table 39. Global Die-to-Die (D2D) IP Sales by Region (2020-2025) & (K MT)
- Table 40. Global Die-to-Die (D2D) IP Sales Market Share by Region (2020-2025)
- Table 41. Global Die-to-Die (D2D) IP Market Size by Region (2020-2025) & (M USD)
- Table 42. Global Die-to-Die (D2D) IP Market Size Market Share by Region (2020-2025)
- Table 43. North America Die-to-Die (D2D) IP Sales by Country (2020-2025) & (K MT)
- Table 44. North America Die-to-Die (D2D) IP Market Size by Country (2020-2025) & (M USD)
- Table 45. Europe Die-to-Die (D2D) IP Sales by Country (2020-2025) & (K MT)
- Table 46. Europe Die-to-Die (D2D) IP Market Size by Country (2020-2025) & (M USD)
- Table 47. Asia Pacific Die-to-Die (D2D) IP Sales by Region (2020-2025) & (K MT)
- Table 48. Asia Pacific Die-to-Die (D2D) IP Market Size by Region (2020-2025) & (M USD)
- Table 49. South America Die-to-Die (D2D) IP Sales by Country (2020-2025) & (K MT)
- Table 50. South America Die-to-Die (D2D) IP Market Size by Country (2020-2025) & (M USD)
- Table 51. Middle East and Africa Die-to-Die (D2D) IP Sales by Region (2020-2025) & (K MT)
- Table 52. Middle East and Africa Die-to-Die (D2D) IP Market Size by Region (2020-2025) & (M USD)
- Table 53. Global Die-to-Die (D2D) IP Production (K MT) by Region(2020-2025)
- Table 54. Global Die-to-Die (D2D) IP Revenue (US\$ Million) by Region (2020-2025)
- Table 55. Global Die-to-Die (D2D) IP Revenue Market Share by Region (2020-2025)
- Table 56. Global Die-to-Die (D2D) IP Production (K MT), Revenue (US\$ Million), Price (USD/KG) and Gross Margin (2020-2025)
- Table 57. North America Die-to-Die (D2D) IP Production (K MT), Revenue (US\$ Million), Price (USD/KG) and Gross Margin (2020-2025)
- Table 58. Europe Die-to-Die (D2D) IP Production (K MT), Revenue (US\$ Million), Price (USD/KG) and Gross Margin (2020-2025)
- Table 59. Japan Die-to-Die (D2D) IP Production (K MT), Revenue (US\$ Million), Price (USD/KG) and Gross Margin (2020-2025)
- Table 60. China Die-to-Die (D2D) IP Production (K MT), Revenue (US\$ Million), Price

(USD/KG) and Gross Margin (2020-2025)

Table 61. Alphawave Basic Information

Table 62. Alphawave Die-to-Die (D2D) IP Product Overview

Table 63. Alphawave Die-to-Die (D2D) IP Sales (K MT), Revenue (M USD), Price (USD/KG) and Gross Margin (2020-2025)

Table 64. Alphawave Business Overview

Table 65. Alphawave SWOT Analysis

Table 66. Alphawave Recent Developments

Table 67. Cadence Basic Information

Table 68. Cadence Die-to-Die (D2D) IP Product Overview

Table 69. Cadence Die-to-Die (D2D) IP Sales (K MT), Revenue (M USD), Price (USD/KG) and Gross Margin (2020-2025)

Table 70. Cadence Business Overview

Table 71. Cadence SWOT Analysis

Table 72. Cadence Recent Developments

Table 73. Synopsys Basic Information

Table 74. Synopsys Die-to-Die (D2D) IP Product Overview

Table 75. Synopsys Die-to-Die (D2D) IP Sales (K MT), Revenue (M USD), Price (USD/KG) and Gross Margin (2020-2025)

Table 76. Synopsys Business Overview

Table 77. Synopsys SWOT Analysis

Table 78. Synopsys Recent Developments

Table 79. GLOBAL UNICHIP CORP. (GUC) Basic Information

Table 80. GLOBAL UNICHIP CORP. (GUC) Die-to-Die (D2D) IP Product Overview

Table 81. GLOBAL UNICHIP CORP. (GUC) Die-to-Die (D2D) IP Sales (K MT), Revenue (M USD), Price (USD/KG) and Gross Margin (2020-2025)

Table 82. GLOBAL UNICHIP CORP. (GUC) Business Overview

Table 83. GLOBAL UNICHIP CORP. (GUC) Recent Developments

Table 84. CEVA Basic Information

Table 85. CEVA Die-to-Die (D2D) IP Product Overview

Table 86. CEVA Die-to-Die (D2D) IP Sales (K MT), Revenue (M USD), Price (USD/KG) and Gross Margin (2020-2025)

Table 87. CEVA Business Overview

Table 88. CEVA Recent Developments

Table 89. Akrostar Basic Information

Table 90. Akrostar Die-to-Die (D2D) IP Product Overview

Table 91. Akrostar Die-to-Die (D2D) IP Sales (K MT), Revenue (M USD), Price (USD/KG) and Gross Margin (2020-2025)

Table 92. Akrostar Business Overview

- Table 93. Akrostar Recent Developments
- Table 94. M SQUARE Basic Information
- Table 95. M SQUARE Die-to-Die (D2D) IP Product Overview
- Table 96. M SQUARE Die-to-Die (D2D) IP Sales (K MT), Revenue (M USD), Price (USD/KG) and Gross Margin (2020-2025)
- Table 97. M SQUARE Business Overview
- Table 98. M SQUARE Recent Developments
- Table 99. Global Die-to-Die (D2D) IP Sales Forecast by Region (2026-2033) & (K MT)
- Table 100. Global Die-to-Die (D2D) IP Market Size Forecast by Region (2026-2033) & (M USD)
- Table 101. North America Die-to-Die (D2D) IP Sales Forecast by Country (2026-2033) & (K MT)
- Table 102. North America Die-to-Die (D2D) IP Market Size Forecast by Country (2026-2033) & (M USD)
- Table 103. Europe Die-to-Die (D2D) IP Sales Forecast by Country (2026-2033) & (K MT)
- Table 104. Europe Die-to-Die (D2D) IP Market Size Forecast by Country (2026-2033) & (M USD)
- Table 105. Asia Pacific Die-to-Die (D2D) IP Sales Forecast by Region (2026-2033) & (K MT)
- Table 106. Asia Pacific Die-to-Die (D2D) IP Market Size Forecast by Region (2026-2033) & (M USD)
- Table 107. South America Die-to-Die (D2D) IP Sales Forecast by Country (2026-2033) & (K MT)
- Table 108. South America Die-to-Die (D2D) IP Market Size Forecast by Country (2026-2033) & (M USD)
- Table 109. Middle East and Africa Die-to-Die (D2D) IP Sales Forecast by Country (2026-2033) & (Units)
- Table 110. Middle East and Africa Die-to-Die (D2D) IP Market Size Forecast by Country (2026-2033) & (M USD)
- Table 111. Global Die-to-Die (D2D) IP Sales Forecast by Type (2026-2033) & (K MT)
- Table 112. Global Die-to-Die (D2D) IP Market Size Forecast by Type (2026-2033) & (M USD)
- Table 113. Global Die-to-Die (D2D) IP Price Forecast by Type (2026-2033) & (USD/KG)
- Table 114. Global Die-to-Die (D2D) IP Sales (K MT) Forecast by Application (2026-2033)
- Table 115. Global Die-to-Die (D2D) IP Market Size Forecast by Application (2026-2033) & (M USD)

List Of Figures

LIST OF FIGURES

- Figure 1. Product Picture of Die-to-Die (D2D) IP
- Figure 2. Data Triangulation
- Figure 3. Key Caveats
- Figure 4. Global Die-to-Die (D2D) IP Market Size (M USD), 2024-2033
- Figure 5. Global Die-to-Die (D2D) IP Market Size (M USD) (2020-2033)
- Figure 6. Global Die-to-Die (D2D) IP Sales (K MT) & (2020-2033)
- Figure 7. Evaluation Matrix of Segment Market Development Potential (Type)
- Figure 8. Evaluation Matrix of Segment Market Development Potential (Application)
- Figure 9. Evaluation Matrix of Regional Market Development Potential
- Figure 10. Die-to-Die (D2D) IP Market Size by Country (M USD)
- Figure 11. Company Assessment Quadrant
- Figure 12. Global Die-to-Die (D2D) IP Product Life Cycle
- Figure 13. Die-to-Die (D2D) IP Sales Share by Manufacturers in 2024
- Figure 14. Global Die-to-Die (D2D) IP Revenue Share by Manufacturers in 2024
- Figure 15. Die-to-Die (D2D) IP Market Share by Company Type (Tier 1, Tier 2 and Tier 3): 2024
- Figure 16. Global Market Die-to-Die (D2D) IP Average Price (USD/KG) of Key Manufacturers in 2024
- Figure 17. The Global 5 and 10 Largest Players: Market Share by Die-to-Die (D2D) IP Revenue in 2024
- Figure 18. Industry Chain Map of Die-to-Die (D2D) IP
- Figure 19. Global Die-to-Die (D2D) IP Market PEST Analysis
- Figure 20. Global Die-to-Die (D2D) IP Market Porter's Five Forces Analysis
- Figure 21. Global Merchandise Trade as a Percentage Of GDP
- Figure 22. US - Imports of Goods by Country
- Figure 23. China Exports by Country
- Figure 24. ESG Rating Distribution of The Leading Company Compared With Its Peers
- Figure 25. Evaluation Matrix of Segment Market Development Potential (Type)
- Figure 26. Global Die-to-Die (D2D) IP Market Share by Type
- Figure 27. Sales Market Share of Die-to-Die (D2D) IP by Type (2020-2025)
- Figure 28. Sales Market Share of Die-to-Die (D2D) IP by Type in 2024
- Figure 29. Market Size Share of Die-to-Die (D2D) IP by Type (2020-2025)
- Figure 30. Market Size Share of Die-to-Die (D2D) IP by Type in 2024
- Figure 31. Evaluation Matrix of Segment Market Development Potential (Application)
- Figure 32. Global Die-to-Die (D2D) IP Market Share by Application

- Figure 33. Global Die-to-Die (D2D) IP Sales Market Share by Application (2020-2025)
- Figure 34. Global Die-to-Die (D2D) IP Sales Market Share by Application in 2024
- Figure 35. Global Die-to-Die (D2D) IP Market Share by Application (2020-2025)
- Figure 36. Global Die-to-Die (D2D) IP Market Share by Application in 2024
- Figure 37. Global Die-to-Die (D2D) IP Sales Growth Rate by Application (2020-2025)
- Figure 38. Global Die-to-Die (D2D) IP Sales Market Share by Region (2020-2025)
- Figure 39. Global Die-to-Die (D2D) IP Market Size Market Share by Region (2020-2025)
- Figure 40. North America Die-to-Die (D2D) IP Sales and Growth Rate (2020-2025) & (K MT)
- Figure 41. North America Die-to-Die (D2D) IP Sales and Growth Rate (2020-2025) & (K MT)
- Figure 42. North America Die-to-Die (D2D) IP Sales Market Share by Country in 2024
- Figure 43. North America Die-to-Die (D2D) IP Market Size and Growth Rate (2020-2025) & (M USD)
- Figure 44. North America Die-to-Die (D2D) IP Market Size Market Share by Country in 2024
- Figure 45. U.S. Die-to-Die (D2D) IP Sales and Growth Rate (2020-2025) & (K MT)
- Figure 46. U.S. Die-to-Die (D2D) IP Market Size and Growth Rate (2020-2025) & (M USD)
- Figure 47. Canada Die-to-Die (D2D) IP Sales (K MT) and Growth Rate (2020-2025)
- Figure 48. Canada Die-to-Die (D2D) IP Market Size (M USD) and Growth Rate (2020-2025)
- Figure 49. Mexico Die-to-Die (D2D) IP Sales (Units) and Growth Rate (2020-2025)
- Figure 50. Mexico Die-to-Die (D2D) IP Market Size (Units) and Growth Rate (2020-2025)
- Figure 51. Europe Die-to-Die (D2D) IP Sales and Growth Rate (2020-2025) & (K MT)
- Figure 52. Europe Die-to-Die (D2D) IP Sales Market Share by Country in 2024
- Figure 53. Europe Die-to-Die (D2D) IP Market Size and Growth Rate (2020-2025) & (M USD)
- Figure 54. Europe Die-to-Die (D2D) IP Market Size Market Share by Country in 2024
- Figure 55. Germany Die-to-Die (D2D) IP Sales and Growth Rate (2020-2025) & (K MT)
- Figure 56. Germany Die-to-Die (D2D) IP Market Size and Growth Rate (2020-2025) & (M USD)
- Figure 57. France Die-to-Die (D2D) IP Sales and Growth Rate (2020-2025) & (K MT)
- Figure 58. France Die-to-Die (D2D) IP Market Size and Growth Rate (2020-2025) & (M USD)
- Figure 59. U.K. Die-to-Die (D2D) IP Sales and Growth Rate (2020-2025) & (K MT)
- Figure 60. U.K. Die-to-Die (D2D) IP Market Size and Growth Rate (2020-2025) & (M USD)

Figure 61. Italy Die-to-Die (D2D) IP Sales and Growth Rate (2020-2025) & (K MT)

Figure 62. Italy Die-to-Die (D2D) IP Market Size and Growth Rate (2020-2025) & (M USD)

Figure 63. Spain Die-to-Die (D2D) IP Sales and Growth Rate (2020-2025) & (K MT)

Figure 64. Spain Die-to-Die (D2D) IP Market Size and Growth Rate (2020-2025) & (M USD)

Figure 65. Asia Pacific Die-to-Die (D2D) IP Sales and Growth Rate (K MT)

Figure 66. Asia Pacific Die-to-Die (D2D) IP Sales Market Share by Region in 2024

Figure 67. Asia Pacific Die-to-Die (D2D) IP Market Size Market Share by Region in 2024

Figure 68. China Die-to-Die (D2D) IP Sales and Growth Rate (2020-2025) & (K MT)

Figure 69. China Die-to-Die (D2D) IP Market Size and Growth Rate (2020-2025) & (M USD)

Figure 70. Japan Die-to-Die (D2D) IP Sales and Growth Rate (2020-2025) & (K MT)

Figure 71. Japan Die-to-Die (D2D) IP Market Size and Growth Rate (2020-2025) & (M USD)

Figure 72. South Korea Die-to-Die (D2D) IP Sales and Growth Rate (2020-2025) & (K MT)

Figure 73. South Korea Die-to-Die (D2D) IP Market Size and Growth Rate (2020-2025) & (M USD)

Figure 74. India Die-to-Die (D2D) IP Sales and Growth Rate (2020-2025) & (K MT)

Figure 75. India Die-to-Die (D2D) IP Market Size and Growth Rate (2020-2025) & (M USD)

Figure 76. Southeast Asia Die-to-Die (D2D) IP Sales and Growth Rate (2020-2025) & (K MT)

Figure 77. Southeast Asia Die-to-Die (D2D) IP Market Size and Growth Rate (2020-2025) & (M USD)

Figure 78. South America Die-to-Die (D2D) IP Sales and Growth Rate (K MT)

Figure 79. South America Die-to-Die (D2D) IP Sales Market Share by Country in 2024

Figure 80. South America Die-to-Die (D2D) IP Market Size and Growth Rate (M USD)

Figure 81. South America Die-to-Die (D2D) IP Market Size Market Share by Country in 2024

Figure 82. Brazil Die-to-Die (D2D) IP Sales and Growth Rate (2020-2025) & (K MT)

Figure 83. Brazil Die-to-Die (D2D) IP Market Size and Growth Rate (2020-2025) & (M USD)

Figure 84. Argentina Die-to-Die (D2D) IP Sales and Growth Rate (2020-2025) & (K MT)

Figure 85. Argentina Die-to-Die (D2D) IP Market Size and Growth Rate (2020-2025) & (M USD)

Figure 86. Columbia Die-to-Die (D2D) IP Sales and Growth Rate (2020-2025) & (K MT)

Figure 87. Columbia Die-to-Die (D2D) IP Market Size and Growth Rate (2020-2025) & (M USD)

Figure 88. Middle East and Africa Die-to-Die (D2D) IP Sales and Growth Rate (K MT)

Figure 89. Middle East and Africa Die-to-Die (D2D) IP Sales Market Share by Region in 2024

Figure 90. Middle East and Africa Die-to-Die (D2D) IP Market Size and Growth Rate (M USD)

Figure 91. Middle East and Africa Die-to-Die (D2D) IP Market Size Market Share by Region in 2024

Figure 92. Saudi Arabia Die-to-Die (D2D) IP Sales and Growth Rate (2020-2025) & (K MT)

Figure 93. Saudi Arabia Die-to-Die (D2D) IP Market Size and Growth Rate (2020-2025) & (M USD)

Figure 94. UAE Die-to-Die (D2D) IP Sales and Growth Rate (2020-2025) & (K MT)

Figure 95. UAE Die-to-Die (D2D) IP Market Size and Growth Rate (2020-2025) & (M USD)

Figure 96. Egypt Die-to-Die (D2D) IP Sales and Growth Rate (2020-2025) & (K MT)

Figure 97. Egypt Die-to-Die (D2D) IP Market Size and Growth Rate (2020-2025) & (M USD)

Figure 98. Nigeria Die-to-Die (D2D) IP Sales and Growth Rate (2020-2025) & (K MT)

Figure 99. Nigeria Die-to-Die (D2D) IP Market Size and Growth Rate (2020-2025) & (M USD)

Figure 100. South Africa Die-to-Die (D2D) IP Sales and Growth Rate (2020-2025) & (K MT)

Figure 101. South Africa Die-to-Die (D2D) IP Market Size and Growth Rate (2020-2025) & (M USD)

Figure 102. Global Die-to-Die (D2D) IP Production Market Share by Region (2020-2025)

Figure 103. North America Die-to-Die (D2D) IP Production (K MT) Growth Rate (2020-2025)

Figure 104. Europe Die-to-Die (D2D) IP Production (K MT) Growth Rate (2020-2025)

Figure 105. Japan Die-to-Die (D2D) IP Production (K MT) Growth Rate (2020-2025)

Figure 106. China Die-to-Die (D2D) IP Production (K MT) Growth Rate (2020-2025)

Figure 107. Global Die-to-Die (D2D) IP Sales Forecast by Volume (2020-2033) & (K MT)

Figure 108. Global Die-to-Die (D2D) IP Market Size Forecast by Value (2020-2033) & (M USD)

Figure 109. Global Die-to-Die (D2D) IP Sales Market Share Forecast by Type (2026-2033)

Figure 110. Global Die-to-Die (D2D) IP Market Share Forecast by Type (2026-2033)

Figure 111. Global Die-to-Die (D2D) IP Sales Forecast by Application (2026-2033)

Figure 112. Global Die-to-Die (D2D) IP Market Share Forecast by Application
(2026-2033)

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