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Global Embedded SiC Carbide Module Market Growth 2026-2032

https://marketpublishers.com/r/GD25D1ADB500EN.html
Date: October 2026
Pages: 88
Price: US$ 3,660.00 (Single User License)
ID: GD25D1ADB500EN

Abstracts

The global Embedded SiC Carbide Module market size is predicted to grow from US$ 718 million in 2025 to US$ 1309 million in 2032; it is expected to grow at a CAGR of 9.1% from 2026 to 2032.

Embedded silicon carbide modules are high-efficiency power modules that integrate silicon carbide power chips, driver circuits, and heat dissipation substrates. They are widely used in new energy vehicle electric drive systems, photovoltaic inverters, energy storage converters, and industrial motor drives. They feature high power density, high efficiency, and high voltage resistance. Global sales in 2024 are expected to reach approximately 3.2 million units, with an average unit price of approximately US$210. Single-line production capacity is approximately 250,000 units. Upstream suppliers primarily include silicon carbide wafer, substrate material, chip manufacturing, and packaging and testing companies, while downstream suppliers primarily include new energy vehicle, photovoltaic inverter, and energy storage system manufacturers. In terms of downstream consumption, for example, a pure electric vehicle's drive system typically requires two to three embedded silicon carbide modules, equivalent to an average of 2.5 modules per vehicle. In photovoltaic inverters, a 100kW inverter consumes approximately two modules on average, while a 1MW power converter consumes approximately 18 modules. The overall gross profit margin is approximately 28%.

United States market for Embedded SiC Carbide Module is estimated to increase from US$ million in 2025 to US$ million by 2032, at a CAGR of % from 2026 through 2032.

China market for Embedded SiC Carbide Module is estimated to increase from US$ million in 2025 to US$ million by 2032, at a CAGR of % from 2026 through 2032.

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Europe market for Embedded SiC Carbide Module is estimated to increase from US$ million in 2025 to US$ million by 2032, at a CAGR of % from 2026 through 2032.

Global key Embedded SiC Carbide Module players cover Wolfspeed, Vincotech, Mitsubishi Electric, Schaeffler, Magna, etc. In terms of revenue, the global two largest companies occupied for a share nearly % in 2025.

Report Scope

LP Information, Inc. (LPI) ' newest research report, the “Embedded SiC Carbide Module Industry Forecast” looks at past sales and reviews total world Embedded SiC Carbide Module sales in 2025, providing a comprehensive analysis by region and market sector of projected Embedded SiC Carbide Module sales for 2026 through 2032. With Embedded SiC Carbide Module sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US$ millions of the world Embedded SiC Carbide Module industry.

This Insight Report provides a comprehensive analysis of the global Embedded SiC Carbide Module landscape and highlights key trends related to product segmentation, company formation, revenue, and market share, latest development, and M&A activity. This report also analyzes the strategies of leading global companies with a focus on Embedded SiC Carbide Module portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms’ unique position in an accelerating global Embedded SiC Carbide Module market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Embedded SiC Carbide Module and breaks down the forecast by Type, by Application, geography, and market size to highlight emerging pockets of opportunity. With a transparent methodology based on hundreds of bottom-up qualitative and quantitative market inputs, this study forecast offers a highly nuanced view of the current state and future trajectory in the global Embedded SiC Carbide Module.

This report presents a comprehensive overview, market shares, and growth opportunities of Embedded SiC Carbide Module market by product type, application, key manufacturers and key regions and countries.

Market Segmentation

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Segmentation by Type:

First-Generation Silicon Carbide Modules

Second-Generation Silicon Carbide Modules

Third-Generation Silicon Carbide Modules

Segmentation by Application:

Automotive

Solar Inverters

Energy Storage

Motor Drives and Power Supplies

Other

This report also splits the market by region:

Americas

United States

Canada

Mexico

Brazil

APAC

China

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- Japan
- Korea
- Southeast Asia
- India
- Australia

Europe

- Germany
- France
- UK
- Italy
- Russia

Middle East & Africa

- Egypt
- South Africa
- Israel
- Turkey
- GCC Countries

The below companies that are profiled have been selected based on inputs gathered from primary experts and analysing the company's coverage, product portfolio, its market penetration.

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Wolfspeed

Vincotech

Mitsubishi Electric

Schaeffler

Magna

Shanghai Chengzhi

BASiC Semiconductor

Jiangsu Xingan Technology

Yitong Semiconductor

Key Questions Addressed in this Report

What is the 10-year outlook for the global Embedded SiC Carbide Module market?

What factors are driving Embedded SiC Carbide Module market growth, globally and by region?

Which technologies are poised for the fastest growth by market and region?

How do Embedded SiC Carbide Module market opportunities vary by end market size?

How does Embedded SiC Carbide Module break out by Type, by Application?

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Contents

1 SCOPE OF THE REPORT

1.1 Market Introduction
1.2 Years Considered
1.3 Research Objectives
1.4 Market Research Methodology
1.5 Research Process and Data Source
1.6 Economic Indicators
1.7 Currency Considered
1.8 Market Estimation Caveats

2 EXECUTIVE SUMMARY

2.1 World Market Overview
  2.1.1 Global Embedded SiC Carbide Module Annual Sales 2021-2032
  2.1.2 World Current & Future Analysis for Embedded SiC Carbide Module by Geographic Region, 2021, 2025 & 2032
  2.1.3 World Current & Future Analysis for Embedded SiC Carbide Module by Country/Region, 2021, 2025 & 2032
2.2 Embedded SiC Carbide Module Segment by Type
  2.2.1 First-Generation Silicon Carbide Modules
  2.2.2 Second-Generation Silicon Carbide Modules
  2.2.3 Third-Generation Silicon Carbide Modules
  2.2.4 Embedded SiC Carbide Module Sales by Type
    2.2.4.1 Global Embedded SiC Carbide Module Sales Market Share by Type (2021-2026)
    2.2.4.2 Global Embedded SiC Carbide Module Revenue and Market Share by Type (2021-2026)
    2.2.4.3 Global Embedded SiC Carbide Module Sale Price by Type (2021-2026)
2.3 Embedded SiC Carbide Module Segment by Application
  2.3.1 Automotive
  2.3.2 Solar Inverters
  2.3.3 Energy Storage
  2.3.4 Motor Drives and Power Supplies
  2.3.5 Other
  2.3.6 Embedded SiC Carbide Module Sales by Application
    2.3.6.1 Global Embedded SiC Carbide Module Sale Market Share by Application

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(2021-2026)
2.3.6.2 Global Embedded SiC Carbide Module Revenue and Market Share by Application (2021-2026)
2.3.6.3 Global Embedded SiC Carbide Module Sale Price by Application (2021-2026)

3 GLOBAL BY COMPANY

3.1 Global Embedded SiC Carbide Module Breakdown Data by Company
3.1.1 Global Embedded SiC Carbide Module Annual Sales by Company (2021-2026)
3.1.2 Global Embedded SiC Carbide Module Sales Market Share by Company (2021-2026)
3.2 Global Embedded SiC Carbide Module Annual Revenue by Company (2021-2026)
3.2.1 Global Embedded SiC Carbide Module Revenue by Company (2021-2026)
3.2.2 Global Embedded SiC Carbide Module Revenue Market Share by Company (2021-2026)
3.3 Global Embedded SiC Carbide Module Sale Price by Company
3.4 Key Manufacturers Embedded SiC Carbide Module Producing Area Distribution, Sales Area, Product Type
3.4.1 Key Manufacturers Embedded SiC Carbide Module Product Location Distribution
3.4.2 Players Embedded SiC Carbide Module Products Offered
3.5 Market Concentration Rate Analysis
3.5.1 Competition Landscape Analysis
3.5.2 Concentration Ratio (CR3, CR5 and CR10) & (2024-2026)
3.6 New Products and Potential Entrants
3.7 Market M&A Activity & Strategy

4 WORLD HISTORIC REVIEW FOR EMBEDDED SIC CARBIDE MODULE BY GEOGRAPHIC REGION

4.1 World Historic Embedded SiC Carbide Module Market Size by Geographic Region (2021-2026)
4.1.1 Global Embedded SiC Carbide Module Annual Sales by Geographic Region (2021-2026)
4.1.2 Global Embedded SiC Carbide Module Annual Revenue by Geographic Region (2021-2026)
4.2 World Historic Embedded SiC Carbide Module Market Size by Country/Region (2021-2026)
4.2.1 Global Embedded SiC Carbide Module Annual Sales by Country/Region (2021-2026)

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4.2.2 Global Embedded SiC Carbide Module Annual Revenue by Country/Region (2021-2026)
4.3 Americas Embedded SiC Carbide Module Sales Growth
4.4 APAC Embedded SiC Carbide Module Sales Growth
4.5 Europe Embedded SiC Carbide Module Sales Growth
4.6 Middle East & Africa Embedded SiC Carbide Module Sales Growth

5 AMERICAS

5.1 Americas Embedded SiC Carbide Module Sales by Country
5.1.1 Americas Embedded SiC Carbide Module Sales by Country (2021-2026)
5.1.2 Americas Embedded SiC Carbide Module Revenue by Country (2021-2026)
5.2 Americas Embedded SiC Carbide Module Sales by Type (2021-2026)
5.3 Americas Embedded SiC Carbide Module Sales by Application (2021-2026)
5.4 United States
5.5 Canada
5.6 Mexico
5.7 Brazil

6 APAC

6.1 APAC Embedded SiC Carbide Module Sales by Region
6.1.1 APAC Embedded SiC Carbide Module Sales by Region (2021-2026)
6.1.2 APAC Embedded SiC Carbide Module Revenue by Region (2021-2026)
6.2 APAC Embedded SiC Carbide Module Sales by Type (2021-2026)
6.3 APAC Embedded SiC Carbide Module Sales by Application (2021-2026)
6.4 China
6.5 Japan
6.6 South Korea
6.7 Southeast Asia
6.8 India
6.9 Australia
6.10 China Taiwan

7 EUROPE

7.1 Europe Embedded SiC Carbide Module by Country
7.1.1 Europe Embedded SiC Carbide Module Sales by Country (2021-2026)
7.1.2 Europe Embedded SiC Carbide Module Revenue by Country (2021-2026)

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7.2 Europe Embedded SiC Carbide Module Sales by Type (2021-2026)
7.3 Europe Embedded SiC Carbide Module Sales by Application (2021-2026)
7.4 Germany
7.5 France
7.6 UK
7.7 Italy
7.8 Russia

8 MIDDLE EAST & AFRICA

8.1 Middle East & Africa Embedded SiC Carbide Module by Country
  8.1.1 Middle East & Africa Embedded SiC Carbide Module Sales by Country (2021-2026)
  8.1.2 Middle East & Africa Embedded SiC Carbide Module Revenue by Country (2021-2026)
8.2 Middle East & Africa Embedded SiC Carbide Module Sales by Type (2021-2026)
8.3 Middle East & Africa Embedded SiC Carbide Module Sales by Application (2021-2026)
8.4 Egypt
8.5 South Africa
8.6 Israel
8.7 Turkey
8.8 GCC Countries

9 MARKET DRIVERS, CHALLENGES AND TRENDS

9.1 Market Drivers & Growth Opportunities
9.2 Market Challenges & Risks
9.3 Industry Trends

10 MANUFACTURING COST STRUCTURE ANALYSIS

10.1 Raw Material and Suppliers
10.2 Manufacturing Cost Structure Analysis of Embedded SiC Carbide Module
10.3 Manufacturing Process Analysis of Embedded SiC Carbide Module
10.4 Industry Chain Structure of Embedded SiC Carbide Module

11 MARKETING, DISTRIBUTORS AND CUSTOMER

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11.1 Sales Channel
11.1.1 Direct Channels
11.1.2 Indirect Channels
11.2 Embedded SiC Carbide Module Distributors
11.3 Embedded SiC Carbide Module Customer

12 WORLD FORECAST REVIEW FOR EMBEDDED SIC CARBIDE MODULE BY GEOGRAPHIC REGION

12.1 Global Embedded SiC Carbide Module Market Size Forecast by Region
12.1.1 Global Embedded SiC Carbide Module Forecast by Region (2027-2032)
12.1.2 Global Embedded SiC Carbide Module Annual Revenue Forecast by Region (2027-2032)
12.2 Americas Forecast by Country (2027-2032)
12.3 APAC Forecast by Region (2027-2032)
12.4 Europe Forecast by Country (2027-2032)
12.5 Middle East & Africa Forecast by Country (2027-2032)
12.6 Global Embedded SiC Carbide Module Forecast by Type (2027-2032)
12.7 Global Embedded SiC Carbide Module Forecast by Application (2027-2032)

13 KEY PLAYERS ANALYSIS

13.1 Wolfspeed
13.1.1 Wolfspeed Company Information
13.1.2 Wolfspeed Embedded SiC Carbide Module Product Portfolios and Specifications
13.1.3 Wolfspeed Embedded SiC Carbide Module Sales, Revenue, Price and Gross Margin (2021-2026)
13.1.4 Wolfspeed Main Business Overview
13.1.5 Wolfspeed Latest Developments
13.2 Vincotech
13.2.1 Vincotech Company Information
13.2.2 Vincotech Embedded SiC Carbide Module Product Portfolios and Specifications
13.2.3 Vincotech Embedded SiC Carbide Module Sales, Revenue, Price and Gross Margin (2021-2026)
13.2.4 Vincotech Main Business Overview
13.2.5 Vincotech Latest Developments
13.3 Mitsubishi Electric
13.3.1 Mitsubishi Electric Company Information

+357 96 030922
info@marketpublishers.com

13.3.2 Mitsubishi Electric Embedded SiC Carbide Module Product Portfolios and Specifications
13.3.3 Mitsubishi Electric Embedded SiC Carbide Module Sales, Revenue, Price and Gross Margin (2021-2026)
13.3.4 Mitsubishi Electric Main Business Overview
13.3.5 Mitsubishi Electric Latest Developments
13.4 Schaeffler
13.4.1 Schaeffler Company Information
13.4.2 Schaeffler Embedded SiC Carbide Module Product Portfolios and Specifications
13.4.3 Schaeffler Embedded SiC Carbide Module Sales, Revenue, Price and Gross Margin (2021-2026)
13.4.4 Schaeffler Main Business Overview
13.4.5 Schaeffler Latest Developments
13.5 Magna
13.5.1 Magna Company Information
13.5.2 Magna Embedded SiC Carbide Module Product Portfolios and Specifications
13.5.3 Magna Embedded SiC Carbide Module Sales, Revenue, Price and Gross Margin (2021-2026)
13.5.4 Magna Main Business Overview
13.5.5 Magna Latest Developments
13.6 Shanghai Chengzhi
13.6.1 Shanghai Chengzhi Company Information
13.6.2 Shanghai Chengzhi Embedded SiC Carbide Module Product Portfolios and Specifications
13.6.3 Shanghai Chengzhi Embedded SiC Carbide Module Sales, Revenue, Price and Gross Margin (2021-2026)
13.6.4 Shanghai Chengzhi Main Business Overview
13.6.5 Shanghai Chengzhi Latest Developments
13.7 BASiC Semiconductor
13.7.1 BASiC Semiconductor Company Information
13.7.2 BASiC Semiconductor Embedded SiC Carbide Module Product Portfolios and Specifications
13.7.3 BASiC Semiconductor Embedded SiC Carbide Module Sales, Revenue, Price and Gross Margin (2021-2026)
13.7.4 BASiC Semiconductor Main Business Overview
13.7.5 BASiC Semiconductor Latest Developments
13.8 Jiangsu Xingan Technology
13.8.1 Jiangsu Xingan Technology Company Information

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info@marketpublishers.com

13.8.2 Jiangsu Xingan Technology Embedded SiC Carbide Module Product Portfolios and Specifications
13.8.3 Jiangsu Xingan Technology Embedded SiC Carbide Module Sales, Revenue, Price and Gross Margin (2021-2026)
13.8.4 Jiangsu Xingan Technology Main Business Overview
13.8.5 Jiangsu Xingan Technology Latest Developments
13.9 Yitong Semiconductor
13.9.1 Yitong Semiconductor Company Information
13.9.2 Yitong Semiconductor Embedded SiC Carbide Module Product Portfolios and Specifications
13.9.3 Yitong Semiconductor Embedded SiC Carbide Module Sales, Revenue, Price and Gross Margin (2021-2026)
13.9.4 Yitong Semiconductor Main Business Overview
13.9.5 Yitong Semiconductor Latest Developments

14 RESEARCH FINDINGS AND CONCLUSION

+357 96 030922
info@marketpublishers.com

List Of Tables

LIST OF TABLES

Table 1. Embedded SiC Carbide Module Annual Sales CAGR by Geographic Region (2021, 2025 & 2032) & ($ millions)
Table 2. Embedded SiC Carbide Module Annual Sales CAGR by Country/Region (2021, 2025 & 2032) & ($ millions)
Table 3. Major Players of First-Generation Silicon Carbide Modules
Table 4. Major Players of Second-Generation Silicon Carbide Modules
Table 5. Major Players of Third-Generation Silicon Carbide Modules
Table 6. Global Embedded SiC Carbide Module Sales by Type (2021-2026) & (K Units)
Table 7. Global Embedded SiC Carbide Module Sales Market Share by Type (2021-2026)
Table 8. Global Embedded SiC Carbide Module Revenue by Type (2021-2026) & ($ million)
Table 9. Global Embedded SiC Carbide Module Revenue Market Share by Type (2021-2026)
Table 10. Global Embedded SiC Carbide Module Sale Price by Type (2021-2026) & (US$/Unit)
Table 11. Global Embedded SiC Carbide Module Sale by Application (2021-2026) & (K Units)
Table 12. Global Embedded SiC Carbide Module Sale Market Share by Application (2021-2026)
Table 13. Global Embedded SiC Carbide Module Revenue by Application (2021-2026) & ($ million)
Table 14. Global Embedded SiC Carbide Module Revenue Market Share by Application (2021-2026)
Table 15. Global Embedded SiC Carbide Module Sale Price by Application (2021-2026) & (US$/Unit)
Table 16. Global Embedded SiC Carbide Module Sales by Company (2021-2026) & (K Units)
Table 17. Global Embedded SiC Carbide Module Sales Market Share by Company (2021-2026)
Table 18. Global Embedded SiC Carbide Module Revenue by Company (2021-2026) & ($ millions)
Table 19. Global Embedded SiC Carbide Module Revenue Market Share by Company (2021-2026)
Table 20. Global Embedded SiC Carbide Module Sale Price by Company (2021-2026)

+357 96 030922
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& (US$/Unit)
Table 21. Key Manufacturers Embedded SiC Carbide Module Producing Area Distribution and Sales Area
Table 22. Players Embedded SiC Carbide Module Products Offered
Table 23. Embedded SiC Carbide Module Concentration Ratio (CR3, CR5 and CR10) & (2024-2026)
Table 24. New Products and Potential Entrants
Table 25. Market M&A Activity & Strategy
Table 26. Global Embedded SiC Carbide Module Sales by Geographic Region (2021-2026) & (K Units)
Table 27. Global Embedded SiC Carbide Module Sales Market Share Geographic Region (2021-2026)
Table 28. Global Embedded SiC Carbide Module Revenue by Geographic Region (2021-2026) & ($ millions)
Table 29. Global Embedded SiC Carbide Module Revenue Market Share by Geographic Region (2021-2026)
Table 30. Global Embedded SiC Carbide Module Sales by Country/Region (2021-2026) & (K Units)
Table 31. Global Embedded SiC Carbide Module Sales Market Share by Country/Region (2021-2026)
Table 32. Global Embedded SiC Carbide Module Revenue by Country/Region (2021-2026) & ($ millions)
Table 33. Global Embedded SiC Carbide Module Revenue Market Share by Country/Region (2021-2026)
Table 34. Americas Embedded SiC Carbide Module Sales by Country (2021-2026) & (K Units)
Table 35. Americas Embedded SiC Carbide Module Sales Market Share by Country (2021-2026)
Table 36. Americas Embedded SiC Carbide Module Revenue by Country (2021-2026) & ($ millions)
Table 37. Americas Embedded SiC Carbide Module Sales by Type (2021-2026) & (K Units)
Table 38. Americas Embedded SiC Carbide Module Sales by Application (2021-2026) & (K Units)
Table 39. APAC Embedded SiC Carbide Module Sales by Region (2021-2026) & (K Units)
Table 40. APAC Embedded SiC Carbide Module Sales Market Share by Region (2021-2026)
Table 41. APAC Embedded SiC Carbide Module Revenue by Region (2021-2026) & ($

+357 96 030922
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millions)
Table 42. APAC Embedded SiC Carbide Module Sales by Type (2021-2026) & (K Units)
Table 43. APAC Embedded SiC Carbide Module Sales by Application (2021-2026) & (K Units)
Table 44. Europe Embedded SiC Carbide Module Sales by Country (2021-2026) & (K Units)
Table 45. Europe Embedded SiC Carbide Module Revenue by Country (2021-2026) & ($ millions)
Table 46. Europe Embedded SiC Carbide Module Sales by Type (2021-2026) & (K Units)
Table 47. Europe Embedded SiC Carbide Module Sales by Application (2021-2026) & (K Units)
Table 48. Middle East & Africa Embedded SiC Carbide Module Sales by Country (2021-2026) & (K Units)
Table 49. Middle East & Africa Embedded SiC Carbide Module Revenue Market Share by Country (2021-2026)
Table 50. Middle East & Africa Embedded SiC Carbide Module Sales by Type (2021-2026) & (K Units)
Table 51. Middle East & Africa Embedded SiC Carbide Module Sales by Application (2021-2026) & (K Units)
Table 52. Key Market Drivers & Growth Opportunities of Embedded SiC Carbide Module
Table 53. Key Market Challenges & Risks of Embedded SiC Carbide Module
Table 54. Key Industry Trends of Embedded SiC Carbide Module
Table 55. Embedded SiC Carbide Module Raw Material
Table 56. Key Suppliers of Raw Materials
Table 57. Embedded SiC Carbide Module Distributors List
Table 58. Embedded SiC Carbide Module Customer List
Table 59. Global Embedded SiC Carbide Module Sales Forecast by Region (2027-2032) & (K Units)
Table 60. Global Embedded SiC Carbide Module Revenue Forecast by Region (2027-2032) & ($ millions)
Table 61. Americas Embedded SiC Carbide Module Sales Forecast by Country (2027-2032) & (K Units)
Table 62. Americas Embedded SiC Carbide Module Annual Revenue Forecast by Country (2027-2032) & ($ millions)
Table 63. APAC Embedded SiC Carbide Module Sales Forecast by Region (2027-2032) & (K Units)
Table 64. APAC Embedded SiC Carbide Module Annual Revenue Forecast by Region

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(2027-2032) & ($ millions)
Table 65. Europe Embedded SiC Carbide Module Sales Forecast by Country (2027-2032) & (K Units)
Table 66. Europe Embedded SiC Carbide Module Revenue Forecast by Country (2027-2032) & ($ millions)
Table 67. Middle East & Africa Embedded SiC Carbide Module Sales Forecast by Country (2027-2032) & (K Units)
Table 68. Middle East & Africa Embedded SiC Carbide Module Revenue Forecast by Country (2027-2032) & ($ millions)
Table 69. Global Embedded SiC Carbide Module Sales Forecast by Type (2027-2032) & (K Units)
Table 70. Global Embedded SiC Carbide Module Revenue Forecast by Type (2027-2032) & ($ millions)
Table 71. Global Embedded SiC Carbide Module Sales Forecast by Application (2027-2032) & (K Units)
Table 72. Global Embedded SiC Carbide Module Revenue Forecast by Application (2027-2032) & ($ millions)
Table 73. Wolfspeed Basic Information, Embedded SiC Carbide Module Manufacturing Base, Sales Area and Its Competitors
Table 74. Wolfspeed Embedded SiC Carbide Module Product Portfolios and Specifications
Table 75. Wolfspeed Embedded SiC Carbide Module Sales (K Units), Revenue ($ Million), Price (US$/Unit) and Gross Margin (2021-2026)
Table 76. Wolfspeed Main Business
Table 77. Wolfspeed Latest Developments
Table 78. Vincotech Basic Information, Embedded SiC Carbide Module Manufacturing Base, Sales Area and Its Competitors
Table 79. Vincotech Embedded SiC Carbide Module Product Portfolios and Specifications
Table 80. Vincotech Embedded SiC Carbide Module Sales (K Units), Revenue ($ Million), Price (US$/Unit) and Gross Margin (2021-2026)
Table 81. Vincotech Main Business
Table 82. Vincotech Latest Developments
Table 83. Mitsubishi Electric Basic Information, Embedded SiC Carbide Module Manufacturing Base, Sales Area and Its Competitors
Table 84. Mitsubishi Electric Embedded SiC Carbide Module Product Portfolios and Specifications
Table 85. Mitsubishi Electric Embedded SiC Carbide Module Sales (K Units), Revenue ($ Million), Price (US$/Unit) and Gross Margin (2021-2026)

+357 96 030922
info@marketpublishers.com

Table 86. Mitsubishi Electric Main Business
Table 87. Mitsubishi Electric Latest Developments
Table 88. Schaeffler Basic Information, Embedded SiC Carbide Module Manufacturing Base, Sales Area and Its Competitors
Table 89. Schaeffler Embedded SiC Carbide Module Product Portfolios and Specifications
Table 90. Schaeffler Embedded SiC Carbide Module Sales (K Units), Revenue ($ Million), Price (US$/Unit) and Gross Margin (2021-2026)
Table 91. Schaeffler Main Business
Table 92. Schaeffler Latest Developments
Table 93. Magna Basic Information, Embedded SiC Carbide Module Manufacturing Base, Sales Area and Its Competitors
Table 94. Magna Embedded SiC Carbide Module Product Portfolios and Specifications
Table 95. Magna Embedded SiC Carbide Module Sales (K Units), Revenue ($ Million), Price (US$/Unit) and Gross Margin (2021-2026)
Table 96. Magna Main Business
Table 97. Magna Latest Developments
Table 98. Shanghai Chengzhi Basic Information, Embedded SiC Carbide Module Manufacturing Base, Sales Area and Its Competitors
Table 99. Shanghai Chengzhi Embedded SiC Carbide Module Product Portfolios and Specifications
Table 100. Shanghai Chengzhi Embedded SiC Carbide Module Sales (K Units), Revenue ($ Million), Price (US$/Unit) and Gross Margin (2021-2026)
Table 101. Shanghai Chengzhi Main Business
Table 102. Shanghai Chengzhi Latest Developments
Table 103. BASiC Semiconductor Basic Information, Embedded SiC Carbide Module Manufacturing Base, Sales Area and Its Competitors
Table 104. BASiC Semiconductor Embedded SiC Carbide Module Product Portfolios and Specifications
Table 105. BASiC Semiconductor Embedded SiC Carbide Module Sales (K Units), Revenue ($ Million), Price (US$/Unit) and Gross Margin (2021-2026)
Table 106. BASiC Semiconductor Main Business
Table 107. BASiC Semiconductor Latest Developments
Table 108. Jiangsu Xingan Technology Basic Information, Embedded SiC Carbide Module Manufacturing Base, Sales Area and Its Competitors
Table 109. Jiangsu Xingan Technology Embedded SiC Carbide Module Product Portfolios and Specifications
Table 110. Jiangsu Xingan Technology Embedded SiC Carbide Module Sales (K Units), Revenue ($ Million), Price (US$/Unit) and Gross Margin (2021-2026)

+357 96 030922
info@marketpublishers.com

Table 111. Jiangsu Xingan Technology Main Business
Table 112. Jiangsu Xingan Technology Latest Developments
Table 113. Yitong Semiconductor Basic Information, Embedded SiC Carbide Module Manufacturing Base, Sales Area and Its Competitors
Table 114. Yitong Semiconductor Embedded SiC Carbide Module Product Portfolios and Specifications
Table 115. Yitong Semiconductor Embedded SiC Carbide Module Sales (K Units), Revenue ($ Million), Price (US$/Unit) and Gross Margin (2021-2026)
Table 116. Yitong Semiconductor Main Business
Table 117. Yitong Semiconductor Latest Developments

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info@marketpublishers.com

List Of Figures

LIST OF FIGURES

Figure 1. Picture of Embedded SiC Carbide Module
Figure 2. Embedded SiC Carbide Module Report Years Considered
Figure 3. Research Objectives
Figure 4. Research Methodology
Figure 5. Research Process and Data Source
Figure 6. Global Embedded SiC Carbide Module Sales Growth Rate 2021-2032 (K Units)
Figure 7. Global Embedded SiC Carbide Module Revenue Growth Rate 2021-2032 ($ millions)
Figure 8. Embedded SiC Carbide Module Sales by Geographic Region (2021, 2025 & 2032) & ($ millions)
Figure 9. Embedded SiC Carbide Module Sales Market Share by Country/Region (2025)
Figure 10. Embedded SiC Carbide Module Sales Market Share by Country/Region (2021, 2025 & 2032)
Figure 11. Product Picture of First-Generation Silicon Carbide Modules
Figure 12. Product Picture of Second-Generation Silicon Carbide Modules
Figure 13. Product Picture of Third-Generation Silicon Carbide Modules
Figure 14. Global Embedded SiC Carbide Module Sales Market Share by Type in 2026
Figure 15. Global Embedded SiC Carbide Module Revenue Market Share by Type (2021-2026)
Figure 16. Embedded SiC Carbide Module Consumed in Automotive
Figure 17. Global Embedded SiC Carbide Module Market: Automotive (2021-2026) & (K Units)
Figure 18. Embedded SiC Carbide Module Consumed in Solar Inverters
Figure 19. Global Embedded SiC Carbide Module Market: Solar Inverters (2021-2026) & (K Units)
Figure 20. Embedded SiC Carbide Module Consumed in Energy Storage
Figure 21. Global Embedded SiC Carbide Module Market: Energy Storage (2021-2026) & (K Units)
Figure 22. Embedded SiC Carbide Module Consumed in Motor Drives and Power Supplies
Figure 23. Global Embedded SiC Carbide Module Market: Motor Drives and Power Supplies (2021-2026) & (K Units)
Figure 24. Embedded SiC Carbide Module Consumed in Other

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Figure 25. Global Embedded SiC Carbide Module Market: Other (2021-2026) & (K Units)
Figure 26. Global Embedded SiC Carbide Module Sale Market Share by Application (2025)
Figure 27. Global Embedded SiC Carbide Module Revenue Market Share by Application in 2026
Figure 28. Embedded SiC Carbide Module Sales by Company in 2026 (K Units)
Figure 29. Global Embedded SiC Carbide Module Sales Market Share by Company in 2026
Figure 30. Embedded SiC Carbide Module Revenue by Company in 2026 ($ millions)
Figure 31. Global Embedded SiC Carbide Module Revenue Market Share by Company in 2026
Figure 32. Global Embedded SiC Carbide Module Sales Market Share by Geographic Region (2021-2026)
Figure 33. Global Embedded SiC Carbide Module Revenue Market Share by Geographic Region in 2026
Figure 34. Americas Embedded SiC Carbide Module Sales 2021-2026 (K Units)
Figure 35. Americas Embedded SiC Carbide Module Revenue 2021-2026 ($ millions)
Figure 36. APAC Embedded SiC Carbide Module Sales 2021-2026 (K Units)
Figure 37. APAC Embedded SiC Carbide Module Revenue 2021-2026 ($ millions)
Figure 38. Europe Embedded SiC Carbide Module Sales 2021-2026 (K Units)
Figure 39. Europe Embedded SiC Carbide Module Revenue 2021-2026 ($ millions)
Figure 40. Middle East & Africa Embedded SiC Carbide Module Sales 2021-2026 (K Units)
Figure 41. Middle East & Africa Embedded SiC Carbide Module Revenue 2021-2026 ($ millions)
Figure 42. Americas Embedded SiC Carbide Module Sales Market Share by Country in 2026
Figure 43. Americas Embedded SiC Carbide Module Revenue Market Share by Country (2021-2026)
Figure 44. Americas Embedded SiC Carbide Module Sales Market Share by Type (2021-2026)
Figure 45. Americas Embedded SiC Carbide Module Sales Market Share by Application (2021-2026)
Figure 46. United States Embedded SiC Carbide Module Revenue Growth 2021-2026 ($ millions)
Figure 47. Canada Embedded SiC Carbide Module Revenue Growth 2021-2026 ($ millions)
Figure 48. Mexico Embedded SiC Carbide Module Revenue Growth 2021-2026 ($

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millions)
Figure 49. Brazil Embedded SiC Carbide Module Revenue Growth 2021-2026 ($ millions)
Figure 50. APAC Embedded SiC Carbide Module Sales Market Share by Region in 2026
Figure 51. APAC Embedded SiC Carbide Module Revenue Market Share by Region (2021-2026)
Figure 52. APAC Embedded SiC Carbide Module Sales Market Share by Type (2021-2026)
Figure 53. APAC Embedded SiC Carbide Module Sales Market Share by Application (2021-2026)
Figure 54. China Embedded SiC Carbide Module Revenue Growth 2021-2026 ($ millions)
Figure 55. Japan Embedded SiC Carbide Module Revenue Growth 2021-2026 ($ millions)
Figure 56. South Korea Embedded SiC Carbide Module Revenue Growth 2021-2026 ($ millions)
Figure 57. Southeast Asia Embedded SiC Carbide Module Revenue Growth 2021-2026 ($ millions)
Figure 58. India Embedded SiC Carbide Module Revenue Growth 2021-2026 ($ millions)
Figure 59. Australia Embedded SiC Carbide Module Revenue Growth 2021-2026 ($ millions)
Figure 60. China Taiwan Embedded SiC Carbide Module Revenue Growth 2021-2026 ($ millions)
Figure 61. Europe Embedded SiC Carbide Module Sales Market Share by Country in 2026
Figure 62. Europe Embedded SiC Carbide Module Revenue Market Share by Country (2021-2026)
Figure 63. Europe Embedded SiC Carbide Module Sales Market Share by Type (2021-2026)
Figure 64. Europe Embedded SiC Carbide Module Sales Market Share by Application (2021-2026)
Figure 65. Germany Embedded SiC Carbide Module Revenue Growth 2021-2026 ($ millions)
Figure 66. France Embedded SiC Carbide Module Revenue Growth 2021-2026 ($ millions)
Figure 67. UK Embedded SiC Carbide Module Revenue Growth 2021-2026 ($ millions)
Figure 68. Italy Embedded SiC Carbide Module Revenue Growth 2021-2026 ($ millions)

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Figure 69. Russia Embedded SiC Carbide Module Revenue Growth 2021-2026 ($ millions)
Figure 70. Middle East & Africa Embedded SiC Carbide Module Sales Market Share by Country (2021-2026)
Figure 71. Middle East & Africa Embedded SiC Carbide Module Sales Market Share by Type (2021-2026)
Figure 72. Middle East & Africa Embedded SiC Carbide Module Sales Market Share by Application (2021-2026)
Figure 73. Egypt Embedded SiC Carbide Module Revenue Growth 2021-2026 ($ millions)
Figure 74. South Africa Embedded SiC Carbide Module Revenue Growth 2021-2026 ($ millions)
Figure 75. Israel Embedded SiC Carbide Module Revenue Growth 2021-2026 ($ millions)
Figure 76. Turkey Embedded SiC Carbide Module Revenue Growth 2021-2026 ($ millions)
Figure 77. GCC Countries Embedded SiC Carbide Module Revenue Growth 2021-2026 ($ millions)
Figure 78. Manufacturing Cost Structure Analysis of Embedded SiC Carbide Module in 2026
Figure 79. Manufacturing Process Analysis of Embedded SiC Carbide Module
Figure 80. Industry Chain Structure of Embedded SiC Carbide Module
Figure 81. Channels of Distribution
Figure 82. Global Embedded SiC Carbide Module Sales Market Forecast by Region (2027-2032)
Figure 83. Global Embedded SiC Carbide Module Revenue Market Share Forecast by Region (2027-2032)
Figure 84. Global Embedded SiC Carbide Module Sales Market Share Forecast by Type (2027-2032)
Figure 85. Global Embedded SiC Carbide Module Revenue Market Share Forecast by Type (2027-2032)
Figure 86. Global Embedded SiC Carbide Module Sales Market Share Forecast by Application (2027-2032)
Figure 87. Global Embedded SiC Carbide Module Revenue Market Share Forecast by Application (2027-2032)

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