

Global Embedded Edge Compute Modules Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Embedded Edge Compute Modules market size is expected to reach \$ 13612 million by 2032, rising at a market growth of 17.9% CAGR during the forecast period (2026-2032).

In 2025, global Embedded Edge Compute Module production was about 31 million units, supported by roughly 38 million units of annual capacity, with average unit price USD 135, and an average gross margin of around 39%. Embedded Edge Compute Modules are compact, self-contained computing units designed to be embedded directly into equipment, machines, or edge devices to perform local data processing, analytics, and AI inference close to the data source, minimizing latency, bandwidth use, and dependence on cloud connectivity; they typically integrate a processor (CPU, GPU, NPU, or SoC), memory, storage, power management, and industrial-grade I/O within a ruggedized form factor. The supply chain starts upstream with semiconductor IP and silicon (ARM/x86 architectures, AI accelerators, memory, power ICs), followed by chip fabrication and packaging, then module design and manufacturing where SoMs/COMs are assembled with firmware, BSPs, and thermal solutions; downstream stages include OS and middleware integration (Linux, RTOS, AI frameworks), OEM/ODM customization for target applications, and finally system integration and deployment into end-use equipment across industrial automation, smart manufacturing, transportation, energy, retail, and IoT infrastructure, with lifecycle support covering security updates, long-term availability, and certification.

This report studies the global Embedded Edge Compute Modules production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Embedded

Edge Compute Modules and provides market size (US\$ million) and Year-over-Year (YoY) Growth, considering 2025 as the base year. This report explores demand trends and competition, as well as details the characteristics of Embedded Edge Compute Modules that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Embedded Edge Compute Modules total production and demand, 2021-2032, (K Units)

Global Embedded Edge Compute Modules total production value, 2021-2032, (USD Million)

Global Embedded Edge Compute Modules production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (K Units), (based on production site)

Global Embedded Edge Compute Modules consumption by region & country, CAGR, 2021-2032 & (K Units)

U.S. VS China: Embedded Edge Compute Modules domestic production, consumption, key domestic manufacturers and share

Global Embedded Edge Compute Modules production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (K Units)

Global Embedded Edge Compute Modules production by Type, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

Global Embedded Edge Compute Modules production by Application, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

This report profiles key players in the global Embedded Edge Compute Modules market based on the following parameters - company overview, production, value, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Advantech, AAEON, Kontron, ADLINK, Congatec, Toradex, TechNexion, Variscite, iWave, SoMLabs, etc.

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

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the World Embedded Edge Compute Modules market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (K Units) and average price (US\$/Unit) by

manufacturer, by Type, and by Application. Data is given for the years 2021-2032 by year with 2025 as the base year, 2026 as the estimate year, and 2027-2032 as the forecast year.

Global Embedded Edge Compute Modules Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Embedded Edge Compute Modules Market, Segmentation by Type:

CPU-only Modules

CPU+GPU Modules

CPU+NPU Modules

Global Embedded Edge Compute Modules Market, Segmentation by Performance Tier:

Entry-level Edge Modules (50 TOPS)

Global Embedded Edge Compute Modules Market, Segmentation by Application:

Industrial

Automotive

Energy & Utilities

Telecom System

Medical Devices

Smart Cities

Others

Companies Profiled:

Advantech

AAEON

Kontron

ADLINK

Congatec

Toradex

TechNexion

Variscite

iWave

SoMLabs

SolidRun

ICOP Technology

VIA Technologies

Tria Technologies

Digi International

Key Questions Answered:

1. How big is the global Embedded Edge Compute Modules market?
2. What is the demand of the global Embedded Edge Compute Modules market?
3. What is the year over year growth of the global Embedded Edge Compute Modules market?
4. What is the production and production value of the global Embedded Edge Compute Modules market?
5. Who are the key producers in the global Embedded Edge Compute Modules market?
6. What are the growth factors driving the market demand?

Contents

1 SUPPLY SUMMARY

- 1.1 Vaccine Delivery Microarray Patches Introduction
- 1.2 World Vaccine Delivery Microarray Patches Supply & Forecast
 - 1.2.1 World Vaccine Delivery Microarray Patches Production Value (2021 & 2025 & 2032)
 - 1.2.2 World Vaccine Delivery Microarray Patches Production (2021-2032)
 - 1.2.3 World Vaccine Delivery Microarray Patches Pricing Trends (2021-2032)
- 1.3 World Vaccine Delivery Microarray Patches Production by Region (Based on Production Site)
 - 1.3.1 World Vaccine Delivery Microarray Patches Production Value by Region (2021-2032)
 - 1.3.2 World Vaccine Delivery Microarray Patches Production by Region (2021-2032)
 - 1.3.3 World Vaccine Delivery Microarray Patches Average Price by Region (2021-2032)
 - 1.3.4 North America Vaccine Delivery Microarray Patches Production (2021-2032)
 - 1.3.5 Europe Vaccine Delivery Microarray Patches Production (2021-2032)
 - 1.3.6 China Vaccine Delivery Microarray Patches Production (2021-2032)
 - 1.3.7 Japan Vaccine Delivery Microarray Patches Production (2021-2032)
- 1.4 Market Drivers, Restraints and Trends
 - 1.4.1 Vaccine Delivery Microarray Patches Market Drivers
 - 1.4.2 Factors Affecting Demand
 - 1.4.3 Vaccine Delivery Microarray Patches Major Market Trends

2 DEMAND SUMMARY

- 2.1 World Vaccine Delivery Microarray Patches Demand (2021-2032)
- 2.2 World Vaccine Delivery Microarray Patches Consumption by Region
 - 2.2.1 World Vaccine Delivery Microarray Patches Consumption by Region (2021-2026)
 - 2.2.2 World Vaccine Delivery Microarray Patches Consumption Forecast by Region (2027-2032)
- 2.3 United States Vaccine Delivery Microarray Patches Consumption (2021-2032)
- 2.4 China Vaccine Delivery Microarray Patches Consumption (2021-2032)
- 2.5 Europe Vaccine Delivery Microarray Patches Consumption (2021-2032)
- 2.6 Japan Vaccine Delivery Microarray Patches Consumption (2021-2032)
- 2.7 South Korea Vaccine Delivery Microarray Patches Consumption (2021-2032)
- 2.8 ASEAN Vaccine Delivery Microarray Patches Consumption (2021-2032)

2.9 India Vaccine Delivery Microarray Patches Consumption (2021-2032)

3 WORLD MANUFACTURERS COMPETITIVE ANALYSIS

3.1 World Vaccine Delivery Microarray Patches Production Value by Manufacturer (2021-2026)

3.2 World Vaccine Delivery Microarray Patches Production by Manufacturer (2021-2026)

3.3 World Vaccine Delivery Microarray Patches Average Price by Manufacturer (2021-2026)

3.4 Vaccine Delivery Microarray Patches Company Evaluation Quadrant

3.5 Industry Rank and Concentration Rate (CR)

3.5.1 Global Vaccine Delivery Microarray Patches Industry Rank of Major Manufacturers

3.5.2 Global Concentration Ratios (CR4) for Vaccine Delivery Microarray Patches in 2025

3.5.3 Global Concentration Ratios (CR8) for Vaccine Delivery Microarray Patches in 2025

3.6 Vaccine Delivery Microarray Patches Market: Overall Company Footprint Analysis

3.6.1 Vaccine Delivery Microarray Patches Market: Region Footprint

3.6.2 Vaccine Delivery Microarray Patches Market: Company Product Type Footprint

3.6.3 Vaccine Delivery Microarray Patches Market: Company Product Application Footprint

3.7 Competitive Environment

3.7.1 Historical Structure of the Industry

3.7.2 Barriers of Market Entry

3.7.3 Factors of Competition

3.8 New Entrant and Capacity Expansion Plans

3.9 Mergers, Acquisition, Agreements, and Collaborations

4 UNITED STATES VS CHINA VS REST OF THE WORLD

4.1 United States VS China: Vaccine Delivery Microarray Patches Production Value Comparison

4.1.1 United States VS China: Vaccine Delivery Microarray Patches Production Value Comparison (2021 & 2025 & 2032)

4.1.2 United States VS China: Vaccine Delivery Microarray Patches Production Value Market Share Comparison (2021 & 2025 & 2032)

4.2 United States VS China: Vaccine Delivery Microarray Patches Production

Comparison

4.2.1 United States VS China: Vaccine Delivery Microarray Patches Production Comparison (2021 & 2025 & 2032)

4.2.2 United States VS China: Vaccine Delivery Microarray Patches Production Market Share Comparison (2021 & 2025 & 2032)

4.3 United States VS China: Vaccine Delivery Microarray Patches Consumption Comparison

4.3.1 United States VS China: Vaccine Delivery Microarray Patches Consumption Comparison (2021 & 2025 & 2032)

4.3.2 United States VS China: Vaccine Delivery Microarray Patches Consumption Market Share Comparison (2021 & 2025 & 2032)

4.4 United States Based Vaccine Delivery Microarray Patches Manufacturers and Market Share, 2021-2026

4.4.1 United States Based Vaccine Delivery Microarray Patches Manufacturers, Headquarters and Production Site (States, Country)

4.4.2 United States Based Manufacturers Vaccine Delivery Microarray Patches Production Value (2021-2026)

4.4.3 United States Based Manufacturers Vaccine Delivery Microarray Patches Production (2021-2026)

4.5 China Based Vaccine Delivery Microarray Patches Manufacturers and Market Share

4.5.1 China Based Vaccine Delivery Microarray Patches Manufacturers, Headquarters and Production Site (Province, Country)

4.5.2 China Based Manufacturers Vaccine Delivery Microarray Patches Production Value (2021-2026)

4.5.3 China Based Manufacturers Vaccine Delivery Microarray Patches Production (2021-2026)

4.6 Rest of World Based Vaccine Delivery Microarray Patches Manufacturers and Market Share, 2021-2026

4.6.1 Rest of World Based Vaccine Delivery Microarray Patches Manufacturers, Headquarters and Production Site (State, Country)

4.6.2 Rest of World Based Manufacturers Vaccine Delivery Microarray Patches Production Value (2021-2026)

4.6.3 Rest of World Based Manufacturers Vaccine Delivery Microarray Patches Production (2021-2026)

5 MARKET ANALYSIS BY TYPE

5.1 World Vaccine Delivery Microarray Patches Market Size Overview by Type: 2021 VS 2025 VS 2032

5.2 Segment Introduction by Type

5.2.1 Dissolving

5.2.2 Non-dissolving

5.3 Market Segment by Type

5.3.1 World Vaccine Delivery Microarray Patches Production by Type (2021-2032)

5.3.2 World Vaccine Delivery Microarray Patches Production Value by Type (2021-2032)

5.3.3 World Vaccine Delivery Microarray Patches Average Price by Type (2021-2032)

6 MARKET ANALYSIS BY MICRONEEDLE MATERIAL

6.1 World Vaccine Delivery Microarray Patches Market Size Overview by Microneedle Material: 2021 VS 2025 VS 2032

6.2 Segment Introduction by Microneedle Material

6.2.1 Hyaluronic Acid

6.2.2 Taurine

6.2.3 Triple-helical Collagen

6.2.4 PGA?PLA?PP

6.3 Market Segment by Microneedle Material

6.3.1 World Vaccine Delivery Microarray Patches Production by Microneedle Material (2021-2032)

6.3.2 World Vaccine Delivery Microarray Patches Production Value by Microneedle Material (2021-2032)

6.3.3 World Vaccine Delivery Microarray Patches Average Price by Microneedle Material (2021-2032)

7 MARKET ANALYSIS BY APPLICATION

7.1 World Vaccine Delivery Microarray Patches Market Size Overview by Application: 2021 VS 2025 VS 2032

7.2 Segment Introduction by Application

7.2.1 Medical

7.2.2 Cosmetics

7.3 Market Segment by Application

7.3.1 World Vaccine Delivery Microarray Patches Production by Application (2021-2032)

7.3.2 World Vaccine Delivery Microarray Patches Production Value by Application (2021-2032)

7.3.3 World Vaccine Delivery Microarray Patches Average Price by Application

(2021-2032)

8 COMPANY PROFILES

8.1 Kindeva

8.1.1 Kindeva Details

8.1.2 Kindeva Major Business

8.1.3 Kindeva Vaccine Delivery Microarray Patches Product and Services

8.1.4 Kindeva Vaccine Delivery Microarray Patches Production, Price, Value, Gross Margin and Market Share (2021-2026)

8.1.5 Kindeva Recent Developments/Updates

8.1.6 Kindeva Competitive Strengths & Weaknesses

8.2 Raphas

8.2.1 Raphas Details

8.2.2 Raphas Major Business

8.2.3 Raphas Vaccine Delivery Microarray Patches Product and Services

8.2.4 Raphas Vaccine Delivery Microarray Patches Production, Price, Value, Gross Margin and Market Share (2021-2026)

8.2.5 Raphas Recent Developments/Updates

8.2.6 Raphas Competitive Strengths & Weaknesses

8.3 CosMED Pharmaceutical

8.3.1 CosMED Pharmaceutical Details

8.3.2 CosMED Pharmaceutical Major Business

8.3.3 CosMED Pharmaceutical Vaccine Delivery Microarray Patches Product and Services

8.3.4 CosMED Pharmaceutical Vaccine Delivery Microarray Patches Production, Price, Value, Gross Margin and Market Share (2021-2026)

8.3.5 CosMED Pharmaceutical Recent Developments/Updates

8.3.6 CosMED Pharmaceutical Competitive Strengths & Weaknesses

8.4 Vaxess Technologies

8.4.1 Vaxess Technologies Details

8.4.2 Vaxess Technologies Major Business

8.4.3 Vaxess Technologies Vaccine Delivery Microarray Patches Product and Services

8.4.4 Vaxess Technologies Vaccine Delivery Microarray Patches Production, Price, Value, Gross Margin and Market Share (2021-2026)

8.4.5 Vaxess Technologies Recent Developments/Updates

8.4.6 Vaxess Technologies Competitive Strengths & Weaknesses

8.5 Micron Biomedical

8.5.1 Micron Biomedical Details

- 8.5.2 Micron Biomedical Major Business
- 8.5.3 Micron Biomedical Vaccine Delivery Microarray Patches Product and Services
- 8.5.4 Micron Biomedical Vaccine Delivery Microarray Patches Production, Price, Value, Gross Margin and Market Share (2021-2026)
- 8.5.5 Micron Biomedical Recent Developments/Updates
- 8.5.6 Micron Biomedical Competitive Strengths & Weaknesses
- 8.6 LTS Lohmann Therapie-Systeme
 - 8.6.1 LTS Lohmann Therapie-Systeme Details
 - 8.6.2 LTS Lohmann Therapie-Systeme Major Business
 - 8.6.3 LTS Lohmann Therapie-Systeme Vaccine Delivery Microarray Patches Product and Services
 - 8.6.4 LTS Lohmann Therapie-Systeme Vaccine Delivery Microarray Patches Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 8.6.5 LTS Lohmann Therapie-Systeme Recent Developments/Updates
 - 8.6.6 LTS Lohmann Therapie-Systeme Competitive Strengths & Weaknesses
- 8.7 ArrayPatch
 - 8.7.1 ArrayPatch Details
 - 8.7.2 ArrayPatch Major Business
 - 8.7.3 ArrayPatch Vaccine Delivery Microarray Patches Product and Services
 - 8.7.4 ArrayPatch Vaccine Delivery Microarray Patches Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 8.7.5 ArrayPatch Recent Developments/Updates
 - 8.7.6 ArrayPatch Competitive Strengths & Weaknesses
- 8.8 CeraVx
 - 8.8.1 CeraVx Details
 - 8.8.2 CeraVx Major Business
 - 8.8.3 CeraVx Vaccine Delivery Microarray Patches Product and Services
 - 8.8.4 CeraVx Vaccine Delivery Microarray Patches Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 8.8.5 CeraVx Recent Developments/Updates
 - 8.8.6 CeraVx Competitive Strengths & Weaknesses
- 8.9 Zhongke Microneedle (Beijing) Technology
 - 8.9.1 Zhongke Microneedle (Beijing) Technology Details
 - 8.9.2 Zhongke Microneedle (Beijing) Technology Major Business
 - 8.9.3 Zhongke Microneedle (Beijing) Technology Vaccine Delivery Microarray Patches Product and Services
 - 8.9.4 Zhongke Microneedle (Beijing) Technology Vaccine Delivery Microarray Patches Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 8.9.5 Zhongke Microneedle (Beijing) Technology Recent Developments/Updates

- 8.9.6 Zhongke Microneedle (Beijing) Technology Competitive Strengths & Weaknesses
- 8.10 Zhuhai Youwe Biotechnology
 - 8.10.1 Zhuhai Youwe Biotechnology Details
 - 8.10.2 Zhuhai Youwe Biotechnology Major Business
 - 8.10.3 Zhuhai Youwe Biotechnology Vaccine Delivery Microarray Patches Product and Services
 - 8.10.4 Zhuhai Youwe Biotechnology Vaccine Delivery Microarray Patches Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 8.10.5 Zhuhai Youwe Biotechnology Recent Developments/Updates
 - 8.10.6 Zhuhai Youwe Biotechnology Competitive Strengths & Weaknesses
- 8.11 Youwei (Zhuhai) Biotechnology
 - 8.11.1 Youwei (Zhuhai) Biotechnology Details
 - 8.11.2 Youwei (Zhuhai) Biotechnology Major Business
 - 8.11.3 Youwei (Zhuhai) Biotechnology Vaccine Delivery Microarray Patches Product and Services
 - 8.11.4 Youwei (Zhuhai) Biotechnology Vaccine Delivery Microarray Patches Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 8.11.5 Youwei (Zhuhai) Biotechnology Recent Developments/Updates
 - 8.11.6 Youwei (Zhuhai) Biotechnology Competitive Strengths & Weaknesses
- 8.12 WCC Biomedical
 - 8.12.1 WCC Biomedical Details
 - 8.12.2 WCC Biomedical Major Business
 - 8.12.3 WCC Biomedical Vaccine Delivery Microarray Patches Product and Services
 - 8.12.4 WCC Biomedical Vaccine Delivery Microarray Patches Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 8.12.5 WCC Biomedical Recent Developments/Updates
 - 8.12.6 WCC Biomedical Competitive Strengths & Weaknesses
- 8.13 Hisamitsu Pharmaceutical
 - 8.13.1 Hisamitsu Pharmaceutical Details
 - 8.13.2 Hisamitsu Pharmaceutical Major Business
 - 8.13.3 Hisamitsu Pharmaceutical Vaccine Delivery Microarray Patches Product and Services
 - 8.13.4 Hisamitsu Pharmaceutical Vaccine Delivery Microarray Patches Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 8.13.5 Hisamitsu Pharmaceutical Recent Developments/Updates
 - 8.13.6 Hisamitsu Pharmaceutical Competitive Strengths & Weaknesses

9 INDUSTRY CHAIN ANALYSIS

- 9.1 Vaccine Delivery Microarray Patches Industry Chain
- 9.2 Vaccine Delivery Microarray Patches Upstream Analysis
 - 9.2.1 Vaccine Delivery Microarray Patches Core Raw Materials
 - 9.2.2 Main Manufacturers of Vaccine Delivery Microarray Patches Core Raw Materials
- 9.3 Midstream Analysis
- 9.4 Downstream Analysis
- 9.5 Vaccine Delivery Microarray Patches Production Mode
- 9.6 Vaccine Delivery Microarray Patches Procurement Model
- 9.7 Vaccine Delivery Microarray Patches Industry Sales Model and Sales Channels
 - 9.7.1 Vaccine Delivery Microarray Patches Sales Model
 - 9.7.2 Vaccine Delivery Microarray Patches Typical Distributors

10 RESEARCH FINDINGS AND CONCLUSION

11 APPENDIX

- 11.1 Methodology
- 11.2 Research Process and Data Source
- 11.3 Disclaimer

List Of Tables

LIST OF TABLES

- Table 1. World Embedded Edge Compute Modules Production Value by Region (2021, 2025 and 2032) & (USD Million)
- Table 2. World Embedded Edge Compute Modules Production Value by Region (2021-2026) & (USD Million)
- Table 3. World Embedded Edge Compute Modules Production Value by Region (2027-2032) & (USD Million)
- Table 4. World Embedded Edge Compute Modules Production Value Market Share by Region (2021-2026)
- Table 5. World Embedded Edge Compute Modules Production Value Market Share by Region (2027-2032)
- Table 6. World Embedded Edge Compute Modules Production by Region (2021-2026) & (K Units)
- Table 7. World Embedded Edge Compute Modules Production by Region (2027-2032) & (K Units)
- Table 8. World Embedded Edge Compute Modules Production Market Share by Region (2021-2026)
- Table 9. World Embedded Edge Compute Modules Production Market Share by Region (2027-2032)
- Table 10. World Embedded Edge Compute Modules Average Price by Region (2021-2026) & (US\$/Unit)
- Table 11. World Embedded Edge Compute Modules Average Price by Region (2027-2032) & (US\$/Unit)
- Table 12. Embedded Edge Compute Modules Major Market Trends
- Table 13. World Embedded Edge Compute Modules Consumption Growth Rate Forecast by Region (2021 & 2025 & 2032) & (K Units)
- Table 14. World Embedded Edge Compute Modules Consumption by Region (2021-2026) & (K Units)
- Table 15. World Embedded Edge Compute Modules Consumption Forecast by Region (2027-2032) & (K Units)
- Table 16. World Embedded Edge Compute Modules Production Value by Manufacturer (2021-2026) & (USD Million)
- Table 17. Production Value Market Share of Key Embedded Edge Compute Modules Producers in 2025
- Table 18. World Embedded Edge Compute Modules Production by Manufacturer (2021-2026) & (K Units)

Table 19. Production Market Share of Key Embedded Edge Compute Modules Producers in 2025

Table 20. World Embedded Edge Compute Modules Average Price by Manufacturer (2021-2026) & (US\$/Unit)

Table 21. Global Embedded Edge Compute Modules Company Evaluation Quadrant

Table 22. World Embedded Edge Compute Modules Industry Rank of Major Manufacturers, Based on Production Value in 2025

Table 23. Head Office and Embedded Edge Compute Modules Production Site of Key Manufacturer

Table 24. Embedded Edge Compute Modules Market: Company Product Type Footprint

Table 25. Embedded Edge Compute Modules Market: Company Product Application Footprint

Table 26. Embedded Edge Compute Modules Competitive Factors

Table 27. Embedded Edge Compute Modules New Entrant and Capacity Expansion Plans

Table 28. Embedded Edge Compute Modules Mergers & Acquisitions Activity

Table 29. United States VS China Embedded Edge Compute Modules Production Value Comparison, (2021 & 2025 & 2032) & (USD Million)

Table 30. United States VS China Embedded Edge Compute Modules Production Comparison, (2021 & 2025 & 2032) & (K Units)

Table 31. United States VS China Embedded Edge Compute Modules Consumption Comparison, (2021 & 2025 & 2032) & (K Units)

Table 32. United States Based Embedded Edge Compute Modules Manufacturers, Headquarters and Production Site (States, Country)

Table 33. United States Based Manufacturers Embedded Edge Compute Modules Production Value, (2021-2026) & (USD Million)

Table 34. United States Based Manufacturers Embedded Edge Compute Modules Production Value Market Share (2021-2026)

Table 35. United States Based Manufacturers Embedded Edge Compute Modules Production (2021-2026) & (K Units)

Table 36. United States Based Manufacturers Embedded Edge Compute Modules Production Market Share (2021-2026)

Table 37. China Based Embedded Edge Compute Modules Manufacturers, Headquarters and Production Site (Province, Country)

Table 38. China Based Manufacturers Embedded Edge Compute Modules Production Value, (2021-2026) & (USD Million)

Table 39. China Based Manufacturers Embedded Edge Compute Modules Production Value Market Share (2021-2026)

Table 40. China Based Manufacturers Embedded Edge Compute Modules Production,

(2021-2026) & (K Units)

Table 41. China Based Manufacturers Embedded Edge Compute Modules Production Market Share (2021-2026)

Table 42. Rest of World Based Embedded Edge Compute Modules Manufacturers, Headquarters and Production Site (State, Country)

Table 43. Rest of World Based Manufacturers Embedded Edge Compute Modules Production Value, (2021-2026) & (USD Million)

Table 44. Rest of World Based Manufacturers Embedded Edge Compute Modules Production Value Market Share (2021-2026)

Table 45. Rest of World Based Manufacturers Embedded Edge Compute Modules Production, (2021-2026) & (K Units)

Table 46. Rest of World Based Manufacturers Embedded Edge Compute Modules Production Market Share (2021-2026)

Table 47. World Embedded Edge Compute Modules Production Value by Type, (USD Million), 2021 & 2025 & 2032

Table 48. World Embedded Edge Compute Modules Production by Type (2021-2026) & (K Units)

Table 49. World Embedded Edge Compute Modules Production by Type (2027-2032) & (K Units)

Table 50. World Embedded Edge Compute Modules Production Value by Type (2021-2026) & (USD Million)

Table 51. World Embedded Edge Compute Modules Production Value by Type (2027-2032) & (USD Million)

Table 52. World Embedded Edge Compute Modules Average Price by Type (2021-2026) & (US\$/Unit)

Table 53. World Embedded Edge Compute Modules Average Price by Type (2027-2032) & (US\$/Unit)

Table 54. World Embedded Edge Compute Modules Production Value by Performance Tier, (USD Million), 2021 & 2025 & 2032

Table 55. World Embedded Edge Compute Modules Production by Performance Tier (2021-2026) & (K Units)

Table 56. World Embedded Edge Compute Modules Production by Performance Tier (2027-2032) & (K Units)

Table 57. World Embedded Edge Compute Modules Production Value by Performance Tier (2021-2026) & (USD Million)

Table 58. World Embedded Edge Compute Modules Production Value by Performance Tier (2027-2032) & (USD Million)

Table 59. World Embedded Edge Compute Modules Average Price by Performance Tier (2021-2026) & (US\$/Unit)

Table 60. World Embedded Edge Compute Modules Average Price by Performance Tier (2027-2032) & (US\$/Unit)

Table 61. World Embedded Edge Compute Modules Production Value by Application, (USD Million), 2021 & 2025 & 2032

Table 62. World Embedded Edge Compute Modules Production by Application (2021-2026) & (K Units)

Table 63. World Embedded Edge Compute Modules Production by Application (2027-2032) & (K Units)

Table 64. World Embedded Edge Compute Modules Production Value by Application (2021-2026) & (USD Million)

Table 65. World Embedded Edge Compute Modules Production Value by Application (2027-2032) & (USD Million)

Table 66. World Embedded Edge Compute Modules Average Price by Application (2021-2026) & (US\$/Unit)

Table 67. World Embedded Edge Compute Modules Average Price by Application (2027-2032) & (US\$/Unit)

Table 68. Advantech Basic Information, Manufacturing Base and Competitors

Table 69. Advantech Major Business

Table 70. Advantech Embedded Edge Compute Modules Product and Services

Table 71. Advantech Embedded Edge Compute Modules Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 72. Advantech Recent Developments/Updates

Table 73. Advantech Competitive Strengths & Weaknesses

Table 74. AAEON Basic Information, Manufacturing Base and Competitors

Table 75. AAEON Major Business

Table 76. AAEON Embedded Edge Compute Modules Product and Services

Table 77. AAEON Embedded Edge Compute Modules Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 78. AAEON Recent Developments/Updates

Table 79. AAEON Competitive Strengths & Weaknesses

Table 80. Kontron Basic Information, Manufacturing Base and Competitors

Table 81. Kontron Major Business

Table 82. Kontron Embedded Edge Compute Modules Product and Services

Table 83. Kontron Embedded Edge Compute Modules Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 84. Kontron Recent Developments/Updates

- Table 85. Kontron Competitive Strengths & Weaknesses
- Table 86. ADLINK Basic Information, Manufacturing Base and Competitors
- Table 87. ADLINK Major Business
- Table 88. ADLINK Embedded Edge Compute Modules Product and Services
- Table 89. ADLINK Embedded Edge Compute Modules Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 90. ADLINK Recent Developments/Updates
- Table 91. ADLINK Competitive Strengths & Weaknesses
- Table 92. Congatec Basic Information, Manufacturing Base and Competitors
- Table 93. Congatec Major Business
- Table 94. Congatec Embedded Edge Compute Modules Product and Services
- Table 95. Congatec Embedded Edge Compute Modules Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 96. Congatec Recent Developments/Updates
- Table 97. Congatec Competitive Strengths & Weaknesses
- Table 98. Toradex Basic Information, Manufacturing Base and Competitors
- Table 99. Toradex Major Business
- Table 100. Toradex Embedded Edge Compute Modules Product and Services
- Table 101. Toradex Embedded Edge Compute Modules Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 102. Toradex Recent Developments/Updates
- Table 103. Toradex Competitive Strengths & Weaknesses
- Table 104. TechNexion Basic Information, Manufacturing Base and Competitors
- Table 105. TechNexion Major Business
- Table 106. TechNexion Embedded Edge Compute Modules Product and Services
- Table 107. TechNexion Embedded Edge Compute Modules Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 108. TechNexion Recent Developments/Updates
- Table 109. TechNexion Competitive Strengths & Weaknesses
- Table 110. Variscite Basic Information, Manufacturing Base and Competitors
- Table 111. Variscite Major Business
- Table 112. Variscite Embedded Edge Compute Modules Product and Services
- Table 113. Variscite Embedded Edge Compute Modules Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 114. Variscite Recent Developments/Updates

Table 115. Variscite Competitive Strengths & Weaknesses

Table 116. iWave Basic Information, Manufacturing Base and Competitors

Table 117. iWave Major Business

Table 118. iWave Embedded Edge Compute Modules Product and Services

Table 119. iWave Embedded Edge Compute Modules Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 120. iWave Recent Developments/Updates

Table 121. iWave Competitive Strengths & Weaknesses

Table 122. SoMLabs Basic Information, Manufacturing Base and Competitors

Table 123. SoMLabs Major Business

Table 124. SoMLabs Embedded Edge Compute Modules Product and Services

Table 125. SoMLabs Embedded Edge Compute Modules Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 126. SoMLabs Recent Developments/Updates

Table 127. SoMLabs Competitive Strengths & Weaknesses

Table 128. SolidRun Basic Information, Manufacturing Base and Competitors

Table 129. SolidRun Major Business

Table 130. SolidRun Embedded Edge Compute Modules Product and Services

Table 131. SolidRun Embedded Edge Compute Modules Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 132. SolidRun Recent Developments/Updates

Table 133. SolidRun Competitive Strengths & Weaknesses

Table 134. ICOP Technology Basic Information, Manufacturing Base and Competitors

Table 135. ICOP Technology Major Business

Table 136. ICOP Technology Embedded Edge Compute Modules Product and Services

Table 137. ICOP Technology Embedded Edge Compute Modules Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 138. ICOP Technology Recent Developments/Updates

Table 139. ICOP Technology Competitive Strengths & Weaknesses

Table 140. VIA Technologies Basic Information, Manufacturing Base and Competitors

Table 141. VIA Technologies Major Business

Table 142. VIA Technologies Embedded Edge Compute Modules Product and Services

Table 143. VIA Technologies Embedded Edge Compute Modules Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share

(2021-2026)

Table 144. VIA Technologies Recent Developments/Updates

Table 145. VIA Technologies Competitive Strengths & Weaknesses

Table 146. Tria Technologies Basic Information, Manufacturing Base and Competitors

Table 147. Tria Technologies Major Business

Table 148. Tria Technologies Embedded Edge Compute Modules Product and Services

Table 149. Tria Technologies Embedded Edge Compute Modules Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share

(2021-2026)

Table 150. Tria Technologies Recent Developments/Updates

Table 151. Tria Technologies Competitive Strengths & Weaknesses

Table 152. Digi International Basic Information, Manufacturing Base and Competitors

Table 153. Digi International Major Business

Table 154. Digi International Embedded Edge Compute Modules Product and Services

Table 155. Digi International Embedded Edge Compute Modules Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share

(2021-2026)

Table 156. Digi International Recent Developments/Updates

Table 157. Digi International Competitive Strengths & Weaknesses

Table 158. Global Key Players of Embedded Edge Compute Modules Upstream (Raw Materials)

Table 159. Global Embedded Edge Compute Modules Typical Customers

Table 160. Embedded Edge Compute Modules Typical Distributors

List Of Figures

LIST OF FIGURES

- Figure 1. Embedded Edge Compute Modules Picture
- Figure 2. World Embedded Edge Compute Modules Production Value: 2021 & 2025 & 2032, (USD Million)
- Figure 3. World Embedded Edge Compute Modules Production Value and Forecast (2021-2032) & (USD Million)
- Figure 4. World Embedded Edge Compute Modules Production (2021-2032) & (K Units)
- Figure 5. World Embedded Edge Compute Modules Average Price (2021-2032) & (US\$/Unit)
- Figure 6. World Embedded Edge Compute Modules Production Value Market Share by Region (2021-2032)
- Figure 7. World Embedded Edge Compute Modules Production Market Share by Region (2021-2032)
- Figure 8. North America Embedded Edge Compute Modules Production (2021-2032) & (K Units)
- Figure 9. Europe Embedded Edge Compute Modules Production (2021-2032) & (K Units)
- Figure 10. China Embedded Edge Compute Modules Production (2021-2032) & (K Units)
- Figure 11. Japan Embedded Edge Compute Modules Production (2021-2032) & (K Units)
- Figure 12. South Korea Embedded Edge Compute Modules Production (2021-2032) & (K Units)
- Figure 13. Southeast Asia Embedded Edge Compute Modules Production (2021-2032) & (K Units)
- Figure 14. China Taiwan Embedded Edge Compute Modules Production (2021-2032) & (K Units)
- Figure 15. Embedded Edge Compute Modules Market Drivers
- Figure 16. Factors Affecting Demand
- Figure 17. World Embedded Edge Compute Modules Consumption (2021-2032) & (K Units)
- Figure 18. World Embedded Edge Compute Modules Consumption Market Share by Region (2021-2032)
- Figure 19. United States Embedded Edge Compute Modules Consumption (2021-2032) & (K Units)
- Figure 20. China Embedded Edge Compute Modules Consumption (2021-2032) & (K Units)

Units)

Figure 21. Europe Embedded Edge Compute Modules Consumption (2021-2032) & (K Units)

Figure 22. Japan Embedded Edge Compute Modules Consumption (2021-2032) & (K Units)

Figure 23. South Korea Embedded Edge Compute Modules Consumption (2021-2032) & (K Units)

Figure 24. ASEAN Embedded Edge Compute Modules Consumption (2021-2032) & (K Units)

Figure 25. India Embedded Edge Compute Modules Consumption (2021-2032) & (K Units)

Figure 26. Producer Shipments of Embedded Edge Compute Modules by Manufacturer Revenue (\$MM) and Market Share (%): 2025

Figure 27. Global Four-firm Concentration Ratios (CR4) for Embedded Edge Compute Modules Markets in 2025

Figure 28. Global Four-firm Concentration Ratios (CR8) for Embedded Edge Compute Modules Markets in 2025

Figure 29. United States VS China: Embedded Edge Compute Modules Production Value Market Share Comparison (2021 & 2025 & 2032)

Figure 30. United States VS China: Embedded Edge Compute Modules Production Market Share Comparison (2021 & 2025 & 2032)

Figure 31. United States VS China: Embedded Edge Compute Modules Consumption Market Share Comparison (2021 & 2025 & 2032)

Figure 32. United States Based Manufacturers Embedded Edge Compute Modules Production Market Share 2025

Figure 33. China Based Manufacturers Embedded Edge Compute Modules Production Market Share 2025

Figure 34. Rest of World Based Manufacturers Embedded Edge Compute Modules Production Market Share 2025

Figure 35. World Embedded Edge Compute Modules Production Value by Type, (USD Million), 2021 & 2025 & 2032

Figure 36. World Embedded Edge Compute Modules Production Value Market Share by Type in 2025

Figure 37. CPU-only Modules

Figure 38. CPU+GPU Modules

Figure 39. CPU+NPU Modules

Figure 40. World Embedded Edge Compute Modules Production Market Share by Type (2021-2032)

Figure 41. World Embedded Edge Compute Modules Production Value Market Share

by Type (2021-2032)

Figure 42. World Embedded Edge Compute Modules Average Price by Type (2021-2032) & (US\$/Unit)

Figure 43. World Embedded Edge Compute Modules Production Value by Performance Tier, (USD Million), 2021 & 2025 & 2032

Figure 44. World Embedded Edge Compute Modules Production Value Market Share by Performance Tier in 2025

Figure 45. Entry-level Edge Modules (50 TOPS)

Figure 48. World Embedded Edge Compute Modules Production Market Share by Performance Tier (2021-2032)

Figure 49. World Embedded Edge Compute Modules Production Value Market Share by Performance Tier (2021-2032)

Figure 50. World Embedded Edge Compute Modules Average Price by Performance Tier (2021-2032) & (US\$/Unit)

Figure 51. World Embedded Edge Compute Modules Production Value by Application, (USD Million), 2021 & 2025 & 2032

Figure 52. World Embedded Edge Compute Modules Production Value Market Share by Application in 2025

Figure 53. Industrial

Figure 54. Automotive

Figure 55. Energy & Utilities

Figure 56. Telecom System

Figure 57. Medical Devices

Figure 58. Smart Cities

Figure 59. Others

Figure 60. World Embedded Edge Compute Modules Production Market Share by Application (2021-2032)

Figure 61. World Embedded Edge Compute Modules Production Value Market Share by Application (2021-2032)

Figure 62. World Embedded Edge Compute Modules Average Price by Application (2021-2032) & (US\$/Unit)

Figure 63. Embedded Edge Compute Modules Industry Chain

Figure 64. Embedded Edge Compute Modules Procurement Model

Figure 65. Embedded Edge Compute Modules Sales Model

Figure 66. Embedded Edge Compute Modules Sales Channels, Direct Sales, and Distribution

Figure 67. Methodology

Figure 68. Research Process and Data Source

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