

Global Embedded Core Board Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Embedded Core Board market size is expected to reach \$ 1392 million by 2032, rising at a market growth of 6.0% CAGR during the forecast period (2026-2032). An Embedded Core Board (also known as a System on Module, SOM) is a compact hardware module that integrates the core functional components of an embedded system?such as the processor (CPU/SoC), memory (RAM and Flash), power management, and sometimes wireless or AI acceleration?onto a single board. It is designed to be plugged into a carrier or baseboard, allowing developers to focus on application-specific interfaces and software while reducing development time, cost, and risk in industrial, robotics, and edge-computing applications. In 2025, global Embedded Core Board production reached approximately 9956 k units with an average global market price of around US\$ 90 per unit. The production capacity for Embedded Core Board in 2025 was approximately 10000 k units. The typical gross profit margin for Embedded Core Board is between 20% and 30%.

The Embedded Core Board (System on Module, SOM) market is relatively mature and steadily growing, driven by rising demand from industrial automation, robotics, edge AI, medical devices, and IoT applications. Market demand is shifting from basic control-oriented modules toward high-performance and AI-enabled core boards that integrate multi-core processors, NPUs/GPUs, and high-speed interfaces. Competition is fragmented, with established embedded vendors, industrial module suppliers, and emerging AI-focused providers coexisting, while differentiation increasingly depends on long-term supply stability, software ecosystem support, and customization capability rather than hardware alone. As edge intelligence and intelligent equipment adoption accelerates, the embedded core board market is expected to maintain stable growth with increasing average selling value per module.

This report studies the global Embedded Core Board production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Embedded Core Board 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 Core Board that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Embedded Core Board total production and demand, 2021-2032, (K Units)

Global Embedded Core Board total production value, 2021-2032, (USD Million)

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

Global Embedded Core Board consumption by region & country, CAGR, 2021-2032 & (K Units)

U.S. VS China: Embedded Core Board domestic production, consumption, key domestic manufacturers and share

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

Global Embedded Core Board production by Type, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

Global Embedded Core Board production by Application, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

This report profiles key players in the global Embedded Core Board 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 Kontron, PHYTEC, Centralp, AAEON, Winmate, Toradex, Variscite, AEWIN, CONTEC, Corvalent, 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 Core Board 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 Core Board Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Embedded Core Board Market, Segmentation by Type:

ARM Core Board

X86 Core Board

Others

Global Embedded Core Board Market, Segmentation by Functional Positioning:

General Type

Industrial Type

AI Accelerated Type

Low Power Type

Global Embedded Core Board Market, Segmentation by Integration:

SoM

Core board + Baseboard

Global Embedded Core Board Market, Segmentation by Application:

Industrial Automation

Internet of Things (IoT) Devices

Smart Manufacturing

Robots

Medical Equipment

Others

Companies Profiled:

Kontron

PHYTEC

Centralp

AAEON

Winmate

Toradex

Variscite

AEWIN

CONTEC

Corvalent

Congatec

DFI

Adlink Technology

Advantech

Tronlong

Guangzhou ZHIYUAN Electronics

Forlinx Embedded Technology

MYIR Electronics Limited

Enclustra

Wuhan Wanxiang Aoke Electronics

Hangzhou Weixinke Electronics

Huajian Electronic Technology

Chengdu Ebyte Electronic Technology

Key Questions Answered:

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

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