

# **Embedded Computer Global Market Insights 2025, Analysis and Forecast to 2030, by Manufacturers, Regions, Technology, Application**

<https://marketpublishers.com/r/EE1BD8F520BFEN.html>

Date: February 2025

Pages: 86

Price: US\$ 3,200.00 (Single User License)

ID: EE1BD8F520BFEN

## **Abstracts**

### **Embedded Computer Market Overview**

The embedded computer market is poised for significant growth from 2025 to 2030, driven by advancements in technology and increasing demand across various industries. Embedded computers are specialized computing systems designed to perform dedicated functions within larger mechanical or electrical systems. These systems are integral to applications such as industrial automation, medical devices, transportation, and telecommunications.

### **Market Size and Growth**

The global embedded computer market was valued at approximately \$6.5 billion in 2025 and is projected to grow at a compound annual growth rate (CAGR) of 5.8% from 2025 to 2030. By 2030, the market is expected to reach \$9.1 billion. This growth is fueled by the increasing adoption of IoT devices, automation in industries, and the need for efficient data processing in real-time applications.

### **Market Share & Trends Analysis**

#### **By Product Type**

The market is segmented by product type into ARM-based, x86-based, and others. The x86-based segment held the largest market share of 45% in 2025, owing to its widespread use in industrial and enterprise applications. However, the ARM-based segment is expected to grow at a higher CAGR of 7.2% during the forecast period, driven by its energy efficiency and suitability for IoT devices.

#### **By Key Players**

The embedded computer market is highly competitive, with key players such as

Advantech, Siemens, Beckhoff, IEI Technology, Kontron, B&R Industrial Automation, Nexcom International, Avalue Technology, DFI, Portwell, and Ennoconn Corp. These companies are focusing on innovation, strategic partnerships, and mergers & acquisitions to strengthen their market position. In 2025, Advantech held the largest market share of 12%, followed by Siemens with 10%.

#### By Process

The market is also segmented by process into single-core, dual-core, and multi-core processors. The multi-core segment is expected to dominate the market, with a projected CAGR of 6.5% from 2025 to 2030, due to its ability to handle complex tasks and improve system performance.

#### By Application

Embedded computers are used across various applications, including Industrial, Building Automation, Gaming, Medical, Point of Sale, Telecoms & Datacoms, Transportation & Infrastructure, and Others. The Industrial segment accounted for the largest market share of 30% in 2025, driven by the increasing adoption of automation and robotics. The Medical segment is expected to grow at the highest CAGR of 8.1%, owing to the rising demand for advanced medical devices and diagnostic equipment.

#### By End-Use

The end-use segments include Manufacturing, Healthcare, Retail, Telecommunications, Transportation, and Others. The Manufacturing sector held the largest market share of 35% in 2025, driven by the need for efficient production processes and automation. The Healthcare sector is expected to witness the highest growth rate of 7.8% during the forecast period, due to the increasing adoption of embedded systems in medical devices and healthcare IT solutions.

#### By Region

Geographically, the market is segmented into North America, Europe, Asia-Pacific, Latin America, and Middle East & Africa. Asia-Pacific dominated the market with a share of 40% in 2025, driven by rapid industrialization and the presence of major manufacturing hubs in countries like China and India. North America is expected to grow at a CAGR of 6.2%, fueled by advancements in technology and the presence of key players in the region.

#### Market News on Policy and Companies

Recent developments in the embedded computer market include:

Advantech announced a strategic partnership with a leading IoT platform provider to enhance its embedded computing solutions for industrial applications.

Siemens launched a new line of embedded computers with advanced AI capabilities, targeting the healthcare and manufacturing sectors.

The European Union introduced new regulations promoting the use of energy-efficient embedded systems in industrial automation, which is expected to drive market growth in the region.

Kontron acquired a smaller competitor to expand its product portfolio and strengthen its market position in the embedded computer segment.

### Segment Forecasts 2025 - 2030

The embedded computer market is expected to witness significant growth across all segments from 2025 to 2030. Key forecasts include:

The ARM-based segment is projected to grow at a CAGR of 7.2%, driven by the increasing adoption of IoT devices.

The Industrial application segment is expected to maintain its dominance, with a projected market size of \$3.2 billion by 2030.

The Asia-Pacific region is expected to continue its leadership, with a projected market share of 42% by 2030.

The Healthcare sector is forecasted to grow at the highest CAGR of 7.8%, driven by the increasing demand for advanced medical devices.

### Conclusion

The embedded computer market is set for robust growth from 2025 to 2030, driven by technological advancements, increasing automation, and the growing adoption of IoT devices across various industries. Key players are focusing on innovation and strategic partnerships to capitalize on emerging opportunities. With a projected CAGR of 5.8%, the market is expected to reach \$9.1 billion by 2030, offering significant opportunities for stakeholders across the value chain.

## Contents

### **CHAPTER 1 EXECUTIVE SUMMARY**

### **CHAPTER 2 ABBREVIATION AND ACRONYMS**

### **CHAPTER 3 PREFACE**

- 3.1 Research Scope
- 3.2 Research Sources
  - 3.2.1 Data Sources
  - 3.2.2 Assumptions
- 3.3 Research Method

### **CHAPTER 4 MARKET LANDSCAPE**

- 4.1 Market Overview
- 4.2 Classification/Types
- 4.3 Application/End Users

### **CHAPTER 5 MARKET TREND ANALYSIS**

- 5.1 Introduction
- 5.2 Drivers
- 5.3 Restraints
- 5.4 Opportunities
- 5.5 Threats

### **CHAPTER 6 INDUSTRY CHAIN ANALYSIS**

- 6.1 Upstream/Suppliers Analysis
- 6.2 Embedded Computer Analysis
  - 6.2.1 Technology Analysis
  - 6.2.2 Cost Analysis
  - 6.2.3 Market Channel Analysis
- 6.3 Downstream Buyers/End Users

### **CHAPTER 7 LATEST MARKET DYNAMICS**

- 7.1 Latest News
- 7.2 Merger and Acquisition
- 7.3 Planned/Future Project
- 7.4 Policy Dynamics

## **CHAPTER 8 TRADING ANALYSIS**

- 8.1 Export of Embedded Computer by Region
- 8.2 Import of Embedded Computer by Region
- 8.3 Balance of Trade

## **CHAPTER 9 HISTORICAL AND FORECAST EMBEDDED COMPUTER MARKET IN NORTH AMERICA (2020-2030)**

- 9.1 Embedded Computer Market Size
- 9.2 Embedded Computer Demand by End Use
- 9.3 Competition by Players/Suppliers
- 9.4 Type Segmentation and Price
- 9.5 Key Countries Analysis
  - 9.5.1 United States
  - 9.5.2 Canada
  - 9.5.3 Mexico

## **CHAPTER 10 HISTORICAL AND FORECAST EMBEDDED COMPUTER MARKET IN SOUTH AMERICA (2020-2030)**

- 10.1 Embedded Computer Market Size
- 10.2 Embedded Computer Demand by End Use
- 10.3 Competition by Players/Suppliers
- 10.4 Type Segmentation and Price
- 10.5 Key Countries Analysis
  - 10.5.1 Brazil
  - 10.5.2 Argentina
  - 10.5.3 Chile
  - 10.5.4 Peru

## **CHAPTER 11 HISTORICAL AND FORECAST EMBEDDED COMPUTER MARKET IN ASIA & PACIFIC (2020-2030)**

- 11.1 Embedded Computer Market Size
- 11.2 Embedded Computer Demand by End Use
- 11.3 Competition by Players/Suppliers
- 11.4 Type Segmentation and Price
- 11.5 Key Countries Analysis
  - 11.5.1 China
  - 11.5.2 India
  - 11.5.3 Japan
  - 11.5.4 South Korea
  - 11.5.5 Southeast Asia
  - 11.5.6 Australia

## **CHAPTER 12 HISTORICAL AND FORECAST EMBEDDED COMPUTER MARKET IN EUROPE (2020-2030)**

- 12.1 Embedded Computer Market Size
- 12.2 Embedded Computer Demand by End Use
- 12.3 Competition by Players/Suppliers
- 12.4 Type Segmentation and Price
- 12.5 Key Countries Analysis
  - 12.5.1 Germany
  - 12.5.2 France
  - 12.5.3 United Kingdom
  - 12.5.4 Italy
  - 12.5.5 Spain
  - 12.5.6 Belgium
  - 12.5.7 Netherlands
  - 12.5.8 Austria
  - 12.5.9 Poland
  - 12.5.10 Russia

## **CHAPTER 13 HISTORICAL AND FORECAST EMBEDDED COMPUTER MARKET IN MEA (2020-2030)**

- 13.1 Embedded Computer Market Size
- 13.2 Embedded Computer Demand by End Use
- 13.3 Competition by Players/Suppliers
- 13.4 Type Segmentation and Price
- 13.5 Key Countries Analysis

- 13.5.1 Egypt
- 13.5.2 Israel
- 13.5.3 South Africa
- 13.5.4 Gulf Cooperation Council Countries
- 13.5.5 Turkey

## **CHAPTER 14 SUMMARY FOR GLOBAL EMBEDDED COMPUTER MARKET (2020-2025)**

- 14.1 Embedded Computer Market Size
- 14.2 Embedded Computer Demand by End Use
- 14.3 Competition by Players/Suppliers
- 14.4 Type Segmentation and Price

## **CHAPTER 15 GLOBAL EMBEDDED COMPUTER MARKET FORECAST (2025-2030)**

- 15.1 Embedded Computer Market Size Forecast
- 15.2 Embedded Computer Demand Forecast
- 15.3 Competition by Players/Suppliers
- 15.4 Type Segmentation and Price Forecast

## **CHAPTER 16 ANALYSIS OF GLOBAL KEY VENDORS**

- 16.1 Advantech
  - 16.1.1 Company Profile
  - 16.1.2 Main Business and Embedded Computer Information
  - 16.1.3 SWOT Analysis of Advantech
  - 16.1.4 Advantech Embedded Computer Sales, Revenue, Price and Gross Margin (2020-2025)
- 16.2 Siemens
  - 16.2.1 Company Profile
  - 16.2.2 Main Business and Embedded Computer Information
  - 16.2.3 SWOT Analysis of Siemens
  - 16.2.4 Siemens Embedded Computer Sales, Revenue, Price and Gross Margin (2020-2025)
- 16.3 Beckhoff
  - 16.3.1 Company Profile
  - 16.3.2 Main Business and Embedded Computer Information
  - 16.3.3 SWOT Analysis of Beckhoff

16.3.4 Beckhoff Embedded Computer Sales, Revenue, Price and Gross Margin  
(2020-2025)

16.4 IEI Technology

16.4.1 Company Profile

16.4.2 Main Business and Embedded Computer Information

16.4.3 SWOT Analysis of IEI Technology

16.4.4 IEI Technology Embedded Computer Sales, Revenue, Price and Gross Margin  
(2020-2025)

16.5 Kontron

16.5.1 Company Profile

16.5.2 Main Business and Embedded Computer Information

16.5.3 SWOT Analysis of Kontron

16.5.4 Kontron Embedded Computer Sales, Revenue, Price and Gross Margin  
(2020-2025)

16.6 B&R Industrial Automation

16.6.1 Company Profile

16.6.2 Main Business and Embedded Computer Information

16.6.3 SWOT Analysis of B&R Industrial Automation

16.6.4 B&R Industrial Automation Embedded Computer Sales, Revenue, Price and  
Gross Margin (2020-2025)

Please ask for sample pages for full companies list

Tables and Figures

Table Abbreviation and Acronyms List

Table Research Scope of Embedded Computer Report

Table Data Sources of Embedded Computer Report

Table Major Assumptions of Embedded Computer Report

Figure Market Size Estimated Method

Figure Major Forecasting Factors

Figure Embedded Computer Picture

Table Embedded Computer Classification

Table Embedded Computer Applications List

Table Drivers of Embedded Computer Market

Table Restraints of Embedded Computer Market

Table Opportunities of Embedded Computer Market

Table Threats of Embedded Computer Market

Table Covid-19 Impact For Embedded Computer Market

Table Raw Materials Suppliers List

Table Different Production Methods of Embedded Computer

Table Cost Structure Analysis of Embedded Computer



Table Key End Users List

Table Latest News of Embedded Computer Market

Table Merger and Acquisition List

Table Planned/Future Project of Embedded Computer Market

Table Policy of Embedded Computer Market

Table 2020-2030 Regional Export of Embedded Computer

Table 2020-2030 Regional Import of Embedded Computer

Table 2020-2030 Regional Trade Balance

Figure 2020-2030 Regional Trade Balance

Table 2020-2030 North America Embedded Computer Market Size and Market Volume List

Figure 2020-2030 North America Embedded Computer Market Size and CAGR

Figure 2020-2030 North America Embedded Computer Market Volume and CAGR

Table 2020-2030 North America Embedded Computer Demand List by Application

Table 2020-2025 North America Embedded Computer Key Players Sales List

Table 2020-2025 North America Embedded Computer Key Players Market Share List

Table 2020-2030 North America Embedded Computer Demand List by Type

Table 2020-2025 North America Embedded Computer Price List by Type

Table 2020-2030 United States Embedded Computer Market Size and Market Volume List

Table 2020-2030 United States Embedded Computer Import & Export List

Table 2020-2030 Canada Embedded Computer Market Size and Market Volume List

Table 2020-2030 Canada Embedded Computer Import & Export List

Table 2020-2030 Mexico Embedded Computer Market Size and Market Volume List

Table 2020-2030 Mexico Embedded Computer Import & Export List

Table 2020-2030 South America Embedded Computer Market Size and Market Volume List

Figure 2020-2030 South America Embedded Computer Market Size and CAGR

Figure 2020-2030 South America Embedded Computer Market Volume and CAGR

Table 2020-2030 South America Embedded Computer Demand List by Application

Table 2020-2025 South America Embedded Computer Key Players Sales List

Table 2020-2025 South America Embedded Computer Key Players Market Share List

Table 2020-2030 South America Embedded Computer Demand List by Type

Table 2020-2025 South America Embedded Computer Price List by Type

Table 2020-2030 Brazil Embedded Computer Market Size and Market Volume List

Table 2020-2030 Brazil Embedded Computer Import & Export List

Table 2020-2030 Argentina Embedded Computer Market Size and Market Volume List

Table 2020-2030 Argentina Embedded Computer Import & Export List

Table 2020-2030 Chile Embedded Computer Market Size and Market Volume List

Table 2020-2030 Chile Embedded Computer Import & Export List  
Table 2020-2030 Peru Embedded Computer Market Size and Market Volume List  
Table 2020-2030 Peru Embedded Computer Import & Export List  
Table 2020-2030 Asia & Pacific Embedded Computer Market Size and Market Volume List  
Figure 2020-2030 Asia & Pacific Embedded Computer Market Size and CAGR  
Figure 2020-2030 Asia & Pacific Embedded Computer Market Volume and CAGR  
Table 2020-2030 Asia & Pacific Embedded Computer Demand List by Application  
Table 2020-2025 Asia & Pacific Embedded Computer Key Players Sales List  
Table 2020-2025 Asia & Pacific Embedded Computer Key Players Market Share List  
Table 2020-2030 Asia & Pacific Embedded Computer Demand List by Type  
Table 2020-2025 Asia & Pacific Embedded Computer Price List by Type  
Table 2020-2030 China Embedded Computer Market Size and Market Volume List  
Table 2020-2030 China Embedded Computer Import & Export List  
Table 2020-2030 India Embedded Computer Market Size and Market Volume List  
Table 2020-2030 India Embedded Computer Import & Export List  
Table 2020-2030 Japan Embedded Computer Market Size and Market Volume List  
Table 2020-2030 Japan Embedded Computer Import & Export List  
Table 2020-2030 South Korea Embedded Computer Market Size and Market Volume List  
Table 2020-2030 South Korea Embedded Computer Import & Export List  
Table 2020-2030 Southeast Asia Embedded Computer Market Size List  
Table 2020-2030 Southeast Asia Embedded Computer Market Volume List  
Table 2020-2030 Southeast Asia Embedded Computer Import List  
Table 2020-2030 Southeast Asia Embedded Computer Export List  
Table 2020-2030 Australia Embedded Computer Market Size and Market Volume List  
Table 2020-2030 Australia Embedded Computer Import & Export List  
Table 2020-2030 Europe Embedded Computer Market Size and Market Volume List  
Figure 2020-2030 Europe Embedded Computer Market Size and CAGR  
Figure 2020-2030 Europe Embedded Computer Market Volume and CAGR  
Table 2020-2030 Europe Embedded Computer Demand List by Application  
Table 2020-2025 Europe Embedded Computer Key Players Sales List  
Table 2020-2025 Europe Embedded Computer Key Players Market Share List  
Table 2020-2030 Europe Embedded Computer Demand List by Type  
Table 2020-2025 Europe Embedded Computer Price List by Type  
Table 2020-2030 Germany Embedded Computer Market Size and Market Volume List  
Table 2020-2030 Germany Embedded Computer Import & Export List  
Table 2020-2030 France Embedded Computer Market Size and Market Volume List  
Table 2020-2030 France Embedded Computer Import & Export List

Table 2020-2030 United Kingdom Embedded Computer Market Size and Market Volume List

Table 2020-2030 United Kingdom Embedded Computer Import & Export List

Table 2020-2030 Italy Embedded Computer Market Size and Market Volume List

Table 2020-2030 Italy Embedded Computer Import & Export List

Table 2020-2030 Spain Embedded Computer Market Size and Market Volume List

Table 2020-2030 Spain Embedded Computer Import & Export List

Table 2020-2030 Belgium Embedded Computer Market Size and Market Volume List

Table 2020-2030 Belgium Embedded Computer Import & Export List

Table 2020-2030 Netherlands Embedded Computer Market Size and Market Volume List

Table 2020-2030 Netherlands Embedded Computer Import & Export List

Table 2020-2030 Austria Embedded Computer Market Size and Market Volume List

Table 2020-2030 Austria Embedded Computer Import & Export List

Table 2020-2030 Poland Embedded Computer Market Size and Market Volume List

Table 2020-2030 Poland Embedded Computer Import & Export List

Table 2020-2030 Russia Embedded Computer Market Size and Market Volume List

Table 2020-2030 Russia Embedded Computer Import & Export List

Table 2020-2030 MEA Embedded Computer Market Size and Market Volume List

Figure 2020-2030 MEA Embedded Computer Market Size and CAGR

Figure 2020-2030 MEA Embedded Computer Market Volume and CAGR

Table 2020-2030 MEA Embedded Computer Demand List by Application

Table 2020-2025 MEA Embedded Computer Key Players Sales List

Table 2020-2025 MEA Embedded Computer Key Players Market Share List

Table 2020-2030 MEA Embedded Computer Demand List by Type

Table 2020-2025 MEA Embedded Computer Price List by Type

Table 2020-2030 Egypt Embedded Computer Market Size and Market Volume List

Table 2020-2030 Egypt Embedded Computer Import & Export List

Table 2020-2030 Israel Embedded Computer Market Size and Market Volume List

Table 2020-2030 Israel Embedded Computer Import & Export List

Table 2020-2030 South Africa Embedded Computer Market Size and Market Volume List

Table 2020-2030 South Africa Embedded Computer Import & Export List

Table 2020-2030 Gulf Cooperation Council Countries Embedded Computer Market Size and Market Volume List

Table 2020-2030 Gulf Cooperation Council Countries Embedded Computer Import & Export List

Table 2020-2030 Turkey Embedded Computer Market Size and Market Volume List

Table 2020-2030 Turkey Embedded Computer Import & Export List

Table 2020-2025 Global Embedded Computer Market Size List by Region  
Table 2020-2025 Global Embedded Computer Market Size Share List by Region  
Table 2020-2025 Global Embedded Computer Market Volume List by Region  
Table 2020-2025 Global Embedded Computer Market Volume Share List by Region  
Table 2020-2025 Global Embedded Computer Demand List by Application  
Table 2020-2025 Global Embedded Computer Demand Market Share List by Application  
Table 2020-2025 Global Embedded Computer Key Vendors Sales List  
Table 2020-2025 Global Embedded Computer Key Vendors Sales Share List  
Figure 2020-2025 Global Embedded Computer Market Volume and Growth Rate  
Table 2020-2025 Global Embedded Computer Key Vendors Revenue List  
Figure 2020-2025 Global Embedded Computer Market Size and Growth Rate  
Table 2020-2025 Global Embedded Computer Key Vendors Revenue Share List  
Table 2020-2025 Global Embedded Computer Demand List by Type  
Table 2020-2025 Global Embedded Computer Demand Market Share List by Type  
Table 2020-2025 Regional Embedded Computer Price List  
Table 2025-2030 Global Embedded Computer Market Size List by Region  
Table 2025-2030 Global Embedded Computer Market Size Share List by Region  
Table 2025-2030 Global Embedded Computer Market Volume List by Region  
Table 2025-2030 Global Embedded Computer Market Volume Share List by Region  
Table 2025-2030 Global Embedded Computer Demand List by Application  
Table 2025-2030 Global Embedded Computer Demand Market Share List by Application  
Table 2025-2030 Global Embedded Computer Key Vendors Sales List  
Table 2025-2030 Global Embedded Computer Key Vendors Sales Share List  
Figure 2025-2030 Global Embedded Computer Market Volume and Growth Rate  
Table 2025-2030 Global Embedded Computer Key Vendors Revenue List  
Figure 2025-2030 Global Embedded Computer Market Size and Growth Rate  
Table 2025-2030 Global Embedded Computer Key Vendors Revenue Share List  
Table 2025-2030 Global Embedded Computer Demand List by Type  
Table 2025-2030 Global Embedded Computer Demand Market Share List by Type  
Table 2025-2030 Embedded Computer Regional Price List  
Table Advantech Information  
Table SWOT Analysis of Advantech  
Table 2020-2025 Advantech Embedded Computer Sale Volume Price Cost Revenue  
Figure 2020-2025 Advantech Embedded Computer Sale Volume and Growth Rate  
Figure 2020-2025 Advantech Embedded Computer Market Share  
Table Siemens Information  
Table SWOT Analysis of Siemens

Table 2020-2025 Siemens Embedded Computer Sale Volume Price Cost Revenue

Figure 2020-2025 Siemens Embedded Computer Sale Volume and Growth Rate

Figure 2020-2025 Siemens Embedded Computer Market Share

Table Beckhoff Information

Table SWOT Analysis of Beckhoff

Table 2020-2025 Beckhoff Embedded Computer Sale Volume Price Cost Revenue

Figure 2020-2025 Beckhoff Embedded Computer Sale Volume and Growth Rate

Figure 2020-2025 Beckhoff Embedded Computer Market Share

Table IEI Technology Information

Table SWOT Analysis of IEI Technology

Table 2020-2025 IEI Technology Embedded Computer Sale Volume Price Cost  
Revenue

Figure 2020-2025 IEI Technology Embedded Computer Sale Volume and Growth Rate

Figure 2020-2025 IEI Technology Embedded Computer Market Share

Table Kontron Information

Table SWOT Analysis of Kontron

Table 2020-2025 Kontron Embedded Computer Sale Volume Price Cost Revenue

Figure 2020-2025 Kontron Embedded Computer Sale Volume and Growth Rate

Figure 2020-2025 Kontron Embedded Computer Market Share

Table B&R Industrial Automation Information

Table SWOT Analysis of B&R Industrial Automation

Table 2020-2025 B&R Industrial Automation Embedded Computer Sale Volume Price  
Cost Revenue

Figure 2020-2025 B&R Industrial Automation Embedded Computer Sale Volume and  
Growth Rate

Figure 2020-2025 B&R Industrial Automation Embedded Computer Market Share

.....



## I would like to order

Product name: Embedded Computer Global Market Insights 2025, Analysis and Forecast to 2030, by Manufacturers, Regions, Technology, Application

Product link: <https://marketpublishers.com/r/EE1BD8F520BFEN.html>

Price: US\$ 3,200.00 (Single User License / Electronic Delivery)

If you want to order Corporate License or Hard Copy, please, contact our Customer Service:

[info@marketpublishers.com](mailto:info@marketpublishers.com)

## Payment

To pay by Credit Card (Visa, MasterCard, American Express, PayPal), please, click button on product page <https://marketpublishers.com/r/EE1BD8F520BFEN.html>