

Global Embedded Control Boards Market 2025 by Manufacturers, Regions, Type and Application, Forecast to 2031

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Abstracts

According to our (Global Info Research) latest study, the global Embedded Control Boards market size was valued at US\$ 1693 million in 2024 and is forecast to a readjusted size of USD 2545 million by 2031 with a CAGR of 6.1% during review period.

In this report, we will assess the current U.S. tariff framework alongside international policy adaptations, analyzing their effects on competitive market structures, regional economic dynamics, and supply chain resilience.

Embedded control boards are specialized circuit boards that integrate microcontrollers or microprocessors with essential components (such as memory, input/output interfaces, and communication modules) to perform dedicated control functions within larger systems. These boards are designed to manage specific tasks—such as data acquisition, signal processing, or automation—embedded directly into machines or devices, without needing external computing. Widely used in applications like industrial automation, robotics, automotive systems, consumer electronics, and medical devices, embedded control boards enable real-time monitoring, control, and communication between hardware and software components.

Embedded control boards typically feature processors such as Intel Atom, ARM Cortex-A, or NXP i.MX series, with 2GB to 16GB of DDR3L or LPDDR4X RAM and storage options including eMMC (8GB–64GB), SATA, or M.2. Standard I/O includes multiple USB 2.0/3.0 ports, RS-232/RS-485 serial interfaces, and dual Gigabit Ethernet, with optional Wi-Fi, Bluetooth, and LTE/5G modules for wireless connectivity. Many boards provide GPIO lines, Mini-PCIe or M.2 expansion slots, and support for dual or triple display outputs (HDMI, VGA, LVDS). Designed for industrial use, they typically operate

within -20°C to +70°C (up to -40°C to +85°C for rugged versions) and accept wide-range power inputs (9V–36V DC). Common form factors include COM Express (95?95 mm), Pico-ITX, and 3.5-inch SBCs, and products often meet CE, FCC, and RoHS standards, with some certified for military (MIL-STD-810G) or medical (EN60601) applications.

This report is a detailed and comprehensive analysis for global Embedded Control Boards market. Both quantitative and qualitative analyses are presented by manufacturers, by region & country, by Type and by Application. As the market is constantly changing, this report explores the competition, supply and demand trends, as well as key factors that contribute to its changing demands across many markets. Company profiles and product examples of selected competitors, along with market share estimates of some of the selected leaders for the year 2025, are provided.

Key Features:

Global Embedded Control Boards market size and forecasts, in consumption value (\$ Million), sales quantity (K Pcs), and average selling prices (US\$/Pcs), 2020-2031

Global Embedded Control Boards market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (K Pcs), and average selling prices (US\$/Pcs), 2020-2031

Global Embedded Control Boards market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (K Pcs), and average selling prices (US\$/Pcs), 2020-2031

Global Embedded Control Boards market shares of main players, shipments in revenue (\$ Million), sales quantity (K Pcs), and ASP (US\$/Pcs), 2020-2025

The Primary Objectives in This Report Are:

To determine the size of the total market opportunity of global and key countries

To assess the growth potential for Embedded Control Boards

To forecast future growth in each product and end-use market

To assess competitive factors affecting the marketplace

This report profiles key players in the global Embedded Control Boards market based on the following parameters - company overview, sales quantity, revenue, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Advantech, Congatec, Kontron, AAEON Technology, IEI Integration, ADLINK Technology, Curtiss-Wright, Eurotech, Advanced Energy, Radisys, etc.

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

Market Segmentation

Embedded Control Boards market is split by Type and by Application. For the period 2020-2031, the growth among segments provides accurate calculations and forecasts for consumption value by Type, and by Application in terms of volume and value. This analysis can help you expand your business by targeting qualified niche markets.

Market segment by Type

x86-based Boards

ARM-based Boards

DSP-based Boards

FPGA-based Boards

Market segment by Application

Industrial Automation

Internet of Things

Medical

Automotive

Military

Major players covered

Advantech

Congatec

Kontron

AAEON Technology

IEI Integration

ADLINK Technology

Curtiss-Wright

Eurotech

Advanced Energy

Radisys

Avalue Technology

Portwell

Texas Instruments

NXP Semiconductors

Microchip Technology

STMicroelectronics

Toradex

Embedded Artists

VersaLogic

Digi International

Market segment by region, regional analysis covers

North America (United States, Canada, and Mexico)

Europe (Germany, France, United Kingdom, Russia, Italy, and Rest of Europe)

Asia-Pacific (China, Japan, Korea, India, Southeast Asia, and Australia)

South America (Brazil, Argentina, Colombia, and Rest of South America)

Middle East & Africa (Saudi Arabia, UAE, Egypt, South Africa, and Rest of Middle East & Africa)

The content of the study subjects, includes a total of 15 chapters:

Chapter 1, to describe Embedded Control Boards product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Embedded Control Boards, with price, sales quantity, revenue, and global market share of Embedded Control Boards from 2020 to 2025.

Chapter 3, the Embedded Control Boards competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Embedded Control Boards breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2020 to 2031.

Chapter 5 and 6, to segment the sales by Type and by Application, with sales market share and growth rate by Type, by Application, from 2020 to 2031.

Chapter 7, 8, 9, 10 and 11, to break the sales data at the country level, with sales quantity, consumption value, and market share for key countries in the world, from 2020 to 2025. and Embedded Control Boards market forecast, by regions, by Type, and by Application, with sales and revenue, from 2026 to 2031.

Chapter 12, market dynamics, drivers, restraints, trends, and Porters Five Forces analysis.

Chapter 13, the key raw materials and key suppliers, and industry chain of Embedded Control Boards.

Chapter 14 and 15, to describe Embedded Control Boards sales channel, distributors, customers, research findings and conclusion.

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