

Global Embedded Hardware for Edge AI 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 Hardware for Edge AI market size was valued at US\$ 1544 million in 2024 and is forecast to a readjusted size of USD 5406 million by 2031 with a CAGR of 19.8% during review period.

China and the United States are two leaders in AI industry. On the AI 100 list (2022) released by CB Insights, the number of companies in the United States ranks first, with more than 70 companies, followed by the United Kingdom, with 8 companies on the list. China and Canada both holds 5 companies on the list. According to data from the China Academy of Information and Communications Technology, the scale of China's core artificial intelligence industry reached ?508 billion in 2022, a year-on-year increase of 18%. From 2013 to November 2022, the cumulative number of patent applications for artificial intelligence inventions in the world reached 729,000, and the cumulative number of applications in China reached 389,000, accounting for 53.4%. However, the Global Artificial Intelligence Innovation Index Report 2021 released by the China Institute of Scientific and Technological Information shows that the overall strength of the United States is still far ahead. The number of artificial intelligence companies in the United States is about 4,670, while China has only 880. China's data center is less than 1/24 of that of the United States.

This report is a detailed and comprehensive analysis for global Embedded Hardware for Edge AI 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 Hardware for Edge AI market size and forecasts, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2020-2031

Global Embedded Hardware for Edge AI market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2020-2031

Global Embedded Hardware for Edge AI market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2020-2031

Global Embedded Hardware for Edge AI market shares of main players, shipments in revenue (\$ Million), sales quantity (K Units), and ASP (US\$/Unit), 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 Hardware for Edge AI
- 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 Hardware for Edge AI 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 AMD (Xilinx), Intel (Altera), Microchip (Microsemi), Lattice, Achronix Semiconductor, NVIDIA, Advantech, Intel, Infineon Technologies, OmniVision Technologies, etc.

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

Market Segmentation

Embedded Hardware for Edge AI 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

GPU

VPU

FPGA

ASIC

Market segment by Application

Healthcare

Entertainment

Smart Factories

Smart AI Vision

Smart Energy

Other

Major players covered

AMD (Xilinx)

Intel (Altera)

Microchip (Microsemi)

Lattice

Achronix Semiconductor

NVIDIA

Advantech

Intel

Infineon Technologies

OmniVision Technologies

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 Hardware for Edge AI product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Embedded Hardware for Edge AI, with price, sales quantity, revenue, and global market share of Embedded Hardware for Edge AI from 2020 to 2025.

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

Chapter 4, the Embedded Hardware for Edge AI breakdown data are shown at the

Global Embedded Hardware for Edge AI Market 2025 by Manufacturers, Regions, Type and Application, Forecast to...

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 Hardware for Edge AI 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 Hardware for Edge AI.

Chapter 14 and 15, to describe Embedded Hardware for Edge AI sales channel, distributors, customers, research findings and conclusion.

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