

Global Embedded & Edge AI Devices Market 2026 by Manufacturers, Regions, Type and Application, Forecast to 2032

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Abstracts

According to our (Global Info Research) latest study, the global Embedded & Edge AI Devices market size was valued at US\$ 26901 million in 2025 and is forecast to a readjusted size of US\$ 81932 million by 2032 with a CAGR of 17.2% during review period.

In 2025, global Embedded & Edge AI Devices production reached approximately 52 million units, with an average global market price of around US\$ 500 per unit. Annual production capacity is 60 million units. Gross Profit Margin: 39%. Embedded & Edge AI Devices are hardware systems that integrate artificial intelligence capabilities directly into embedded processors or edge computing platforms, enabling data processing, analysis, and decision-making locally at or near the source of data generation rather than relying on centralized cloud infrastructure. The Embedded & Edge AI Devices industry chain consists of three main segments: upstream, midstream, and downstream. The upstream includes semiconductor manufacturers, sensor suppliers, and component providers such as AI chips (GPUs, NPUs, and ASIC accelerators), memory, connectivity modules, and embedded processors. The midstream focuses on device manufacturing and system integration, where companies develop edge AI hardware platforms, embedded modules, industrial gateways, and smart cameras combined with AI software frameworks and development kits. The downstream covers application industries including smart surveillance, autonomous vehicles, industrial automation, healthcare monitoring, consumer electronics, robotics, and smart cities, where embedded edge AI devices enable real-time data processing, low-latency decision making, and reduced reliance on cloud computing. Embedded & Edge AI Devices represent one of the most practical directions for artificial intelligence development.

This report is a detailed and comprehensive analysis for global Embedded & Edge AI Devices 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 & Edge AI Devices market size and forecasts, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2021-2032

Global Embedded & Edge AI Devices market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2021-2032

Global Embedded & Edge AI Devices market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2021-2032

Global Embedded & Edge AI Devices market shares of main players, shipments in revenue (\$ Million), sales quantity (K Units), and ASP (US\$/Unit), 2021-2026

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 & Edge AI Devices

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 & Edge AI Devices 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 NVIDIA (NASDAQ: NVDA, USA),

Intel (NASDAQ: INTC, USA), Qualcomm (NASDAQ: QCOM, USA), Advanced Micro Devices (NASDAQ: AMD, USA), NXP Semiconductors (NASDAQ: NXPI, Netherlands), MediaTek (TWSE: 2454, Taiwan), Ambarella (NASDAQ: AMBA, USA), Synaptics (NASDAQ: SYNA, USA), Renesas Electronics (TSE: 6723, Japan), Apple (NASDAQ: AAPL, USA), etc.

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

Market Segmentation

Embedded & Edge AI Devices market is split by Type and by Application. For the period 2021-2032, 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

CPU-based Edge AI Devices

GPU-based Edge AI Devices

NPU / AI Accelerator-based Devices

FPGA-based Edge AI Devices

ASIC-based Edge AI Devices

Market segment by Device

Edge AI Modules

Edge AI Development Boards

Embedded AI Systems

Edge AI Gateways

Edge AI Servers

Market segment by Deployment

On-Device AI (Standalone Edge Devices)

Edge Gateway AI

Edge Server / Micro Data Center

Market segment by Application

Automotive

Manufacturing

Healthcare

Consumer Electronics

Retail

Telecommunications

Smart Cities & Security

Agriculture

Major players covered

NVIDIA (NASDAQ: NVDA, USA)

Intel (NASDAQ: INTC, USA)

Qualcomm (NASDAQ: QCOM, USA)

Advanced Micro Devices (NASDAQ: AMD, USA)

NXP Semiconductors (NASDAQ: NXPI, Netherlands)

MediaTek (TWSE: 2454, Taiwan)

Ambarella (NASDAQ: AMBA, USA)

Synaptics (NASDAQ: SYNA, USA)

Renesas Electronics (TSE: 6723, Japan)

Apple (NASDAQ: AAPL, USA)

IBM (NYSE: IBM, USA)

Huawei Technologies (Private, China)

Cambricon Technologies (SSE: 688256, China)

Horizon Robotics (Private/Public listing process, China)

Rockchip Electronics (Private, China)

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 & Edge AI Devices product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Embedded & Edge AI Devices, with price, sales quantity, revenue, and global market share of Embedded & Edge AI Devices from 2021 to 2026.

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

Chapter 4, the Embedded & Edge AI Devices breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2021 to 2032.

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 2021 to 2032.

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 2021 to 2026. and Embedded & Edge AI Devices market forecast, by regions, by Type, and by Application, with sales and revenue, from 2027 to 2032.

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 & Edge AI Devices.

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

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