

Global Edge AI Acceleration Modules 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 Edge AI Acceleration Modules market size was valued at US\$ 4671 million in 2025 and is forecast to a readjusted size of US\$ 18115 million by 2032 with a CAGR of 21.3% during review period.

In 2025, global Edge AI Acceleration Module output reached approximately 18.9 million units, supported by an installed capacity of about 22.5 million units, with an average unit price near USD 240, and a healthy industry-wide gross margin of around 40%. Edge AI Acceleration Modules are compact hardware units—typically based on GPUs, NPUs, TPUs, FPGAs, or ASIC accelerators—designed to deliver high-performance AI inference directly at the edge, enabling real-time vision, speech, and sensor analytics in environments where latency, bandwidth, power, and data privacy are critical (e.g., smart factories, autonomous machines, retail analytics, and medical devices). Their supply chain starts upstream with semiconductor IP and silicon fabrication (foundries such as TSMC/Samsung producing AI SoCs and accelerators), followed by substrate, memory (HBM/LPDDR), and power-management components; midstream players integrate these chips into modules (PCIe cards, M.2, MXM, COM, or system-on-module formats) with thermal design, firmware, and SDKs; downstream, OEMs embed the modules into edge systems—industrial PCs, robots, cameras, gateways, and vehicles—while software vendors and system integrators complete the stack with models, middleware, and vertical applications for deployment at scale.

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

Global Edge AI Acceleration Modules 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 Edge AI Acceleration Modules 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 Edge AI Acceleration Modules 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 Edge AI Acceleration Modules

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 Edge AI Acceleration Modules 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, Huawei, Google, AMD, Intel, Hailo, Axelera AI, Kinara AI, EdgeCortex, Ambarella, etc.

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

Market Segmentation

Edge AI Acceleration Modules 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

GPU-based Modules

NPU/TPU-based Modules

FPGA-based Modules

ASIC-based Modules

Market segment by Power Envelope

Ultra-low Power (40 W)

Market segment by Application

Automotive

Industrial

Commercial

Healthcare

Energy & Utilities

Telecom & Data Centers

Others

Major players covered

NVIDIA

Huawei

Google

AMD

Intel

Hailo

Axelera AI

Kinara AI

EdgeCortix

Ambarella

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 Edge AI Acceleration Modules product scope, market overview, market estimation caveats and base year.

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

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

Chapter 4, the Edge AI Acceleration Modules 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 Edge AI Acceleration Modules 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 Edge AI Acceleration Modules.

Chapter 14 and 15, to describe Edge AI Acceleration Modules sales channel, distributors, customers, research findings and conclusion.

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