

Global Edge AI Vision Processor 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 Vision Processor market size was valued at US\$ 1479 million in 2025 and is forecast to a readjusted size of US\$ 2110 million by 2032 with a CAGR of 5.3% during review period.

This specialized low-power AI chip integrates vision processing units (VPUs) and neural network accelerators to perform real-time computer vision tasks (e.g., image recognition, object detection) directly on edge devices. Featuring optimized energy-efficient architecture and support for major deep learning frameworks, it enables localized intelligent processing for applications demanding real-time response and data privacy like surveillance, industrial inspection, and autonomous driving, minimizing reliance on cloud computing.

The edge AI vision processor industry is undergoing a transformation from general computing architecture to scene-specific design. With the rapid penetration of computer vision applications in vertical fields such as industry and retail, processor manufacturers have begun to optimize the architecture for computing power distribution and energy efficiency requirements in different scenarios. For example, industrial quality inspection emphasizes low-latency reasoning, while consumer-grade devices focus on power consumption control. This differentiation trend has been clearly shown in the latest product roadmaps of leading chip manufacturers.

The technological evolution presents the characteristics of algorithm and chip co-design. The new generation of processors no longer simply pursues TOPS computing power indicators, but improves the effective computing power utilization in real scenarios through innovations such as visual algorithm hardening and multimodal data

fusion architecture. Especially in frontier directions such as end-side training and adaptive reasoning, processors are evolving from simple accelerators to autonomous evolution systems.

The industry competition dimension is shifting from hardware parameters to overall solution capabilities. As AI vision applications sink to more long-tail scenarios, chip manufacturers need to provide full-stack support from development tool chains, algorithm models to power optimization. This shift gives players with algorithm ecology and vertical industry experience more advantages. At the same time, the rise of privacy computing needs has also promoted the trusted execution environment to become a standard feature of the new generation of processors.

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

Global Edge AI Vision Processor 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 Vision Processor 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 Vision Processor 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:

Global Edge AI Vision Processor Market 2026 by Manufacturers, Regions, Type and Application, Forecast to 2032

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

To assess the growth potential for Edge AI Vision Processor

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 Vision Processor 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 Ambarella, Blaize, Hailo, Intel, Kinara, Mythic, NVIDIA, Qualcomm, Synaptics, Synopsys, etc.

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

Market Segmentation

Edge AI Vision Processor 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

1 TOPS

8 TOPS

32 TOPS

Others

Market segment by Application

Industrial Automation

Security Camera System

Autonomous Driving

Smart Retail

Others

Major players covered

Ambarella

Blaize

Hailo

Intel

Kinara

Mythic

NVIDIA

Qualcomm

Synaptics

Synopsys

Texas Instruments

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 Vision Processor product scope, market overview, market estimation caveats and base year.

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

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

Chapter 4, the Edge AI Vision Processor 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 Vision Processor 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 Vision Processor.

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

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