

Global Edge AI Inference Chips Market Growth 2026-2032

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Abstracts

The global Edge AI Inference Chips market size is predicted to grow from US\$ 17892 million in 2025 to US\$ 74049 million in 2032; it is expected to grow at a CAGR of 22.6% from 2026 to 2032.

In 2025, global edge AI inference chip output totaled about 520 million units, with 900 million units of capacity, with average unit price USD 35, and gross margins around 45%. Edge AI inference chips are specialized semiconductors designed to run trained artificial intelligence models locally on devices rather than in centralized data centers, enabling real-time decision-making with low latency, reduced bandwidth use, and improved privacy. They integrate compute architectures such as NPUs, GPUs, DSPs, or custom ASIC accelerators optimized for neural-network workloads including computer vision, speech recognition, and sensor fusion. The supply chain begins upstream with raw materials (silicon wafers, specialty chemicals, advanced packaging substrates) and EDA software providers that support chip design. Midstream includes fabless chip designers (e.g., AI accelerator startups and major semiconductor firms), IP licensors (CPU/GPU/NPU cores), and semiconductor foundries that manufacture chips using advanced process nodes, followed by OSAT companies handling packaging and testing—often using heterogeneous integration or chiplet approaches to meet power and thermal constraints. Downstream, edge AI inference chips are integrated into modules and devices such as smartphones, cameras, industrial robots, vehicles, smart home products, and IoT gateways, with software stacks, model optimization tools, and system integrators playing a critical role in performance deployment across industries including consumer electronics, automotive, manufacturing, healthcare, and smart infrastructure.

United States market for Edge AI Inference Chips is estimated to increase from US\$ million in 2025 to US\$ million by 2032, at a CAGR of % from 2026 through 2032.

China market for Edge AI Inference Chips is estimated to increase from US\$ million in 2025 to US\$ million by 2032, at a CAGR of % from 2026 through 2032.

Europe market for Edge AI Inference Chips is estimated to increase from US\$ million in 2025 to US\$ million by 2032, at a CAGR of % from 2026 through 2032.

Global key Edge AI Inference Chips players cover NVIDIA, Qualcomm, MediaTek, Apple, Samsung, etc. In terms of revenue, the global two largest companies occupied for a share nearly % in 2025.

LP Information, Inc. (LPI) ' newest research report, the “Edge AI Inference Chips Industry Forecast” looks at past sales and reviews total world Edge AI Inference Chips sales in 2025, providing a comprehensive analysis by region and market sector of projected Edge AI Inference Chips sales for 2026 through 2032. With Edge AI Inference Chips sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US\$ millions of the world Edge AI Inference Chips industry.

This Insight Report provides a comprehensive analysis of the global Edge AI Inference Chips landscape and highlights key trends related to product segmentation, company formation, revenue, and market share, latest development, and M&A activity. This report also analyzes the strategies of leading global companies with a focus on Edge AI Inference Chips portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global Edge AI Inference Chips market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Edge AI Inference Chips and breaks down the forecast by Type, by Application, geography, and market size to highlight emerging pockets of opportunity. With a transparent methodology based on hundreds of bottom-up qualitative and quantitative market inputs, this study forecast offers a highly nuanced view of the current state and future trajectory in the global Edge AI Inference Chips.

This report presents a comprehensive overview, market shares, and growth opportunities of Edge AI Inference Chips market by product type, application, key manufacturers and key regions and countries.

Segmentation by Type:

NPU-centric AI Chips

GPU-based AI Chips

DSP-based AI Chips

Others

Segmentation by Power Envelope:

50W

Segmentation by Application:

Consumer Electronics

Automotive Electronics

Industrial Automation

Telecom & Data Centers

Medical Devices

Others

This report also splits the market by region:

Americas

United States

Canada

Mexico

Brazil

APAC

China

Japan

Korea

Southeast Asia

India

Australia

Europe

Germany

France

UK

Italy

Russia

Middle East & Africa

Egypt

South Africa

Israel

Turkey

GCC Countries

The below companies that are profiled have been selected based on inputs gathered from primary experts and analysing the company's coverage, product portfolio, its market penetration.

NVIDIA

Qualcomm

MediaTek

Apple

Samsung

Mobileye

Ambarella

NXP Semiconductors

STMicroelectronics

Renesas Electronics

Texas Instruments

Infineon Technologies

Horizon Robotics

Hailo

Kneron

SiMa.ai

Blaize

Syntiant

Axelera AI

Untether AI

Key Questions Addressed in this Report

What is the 10-year outlook for the global Edge AI Inference Chips market?

What factors are driving Edge AI Inference Chips market growth, globally and by region?

Which technologies are poised for the fastest growth by market and region?

How do Edge AI Inference Chips market opportunities vary by end market size?

How does Edge AI Inference Chips break out by Type, by Application?

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