

# Global Edge AI ICs Supply, Demand and Key Producers, 2026-2032

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## Abstracts

The global Edge AI ICs market size is expected to reach \$ 10830 million by 2032, rising at a market growth of 16.2% CAGR during the forecast period (2026-2032).

Edge AI is an emerging technology that combines the power of artificial intelligence (AI) with the advantages of edge computing, enabling the processing of data and execution of AI algorithms directly on devices at the edge of the network, rather than relying on centralized cloud-based systems.

The growth of the Edge AI ICs market is primarily driven by increasing demand for real-time processing, heightened data privacy and security requirements, and the rapid advancement of intelligent edge devices. Applications such as autonomous driving, industrial automation, machine vision, and intelligent surveillance require ultra-low latency and localized decision-making, exposing the limitations of cloud-centric AI architectures in terms of delay and bandwidth cost. At the same time, stricter data protection and compliance regulations favor on-device data processing. In addition, the rapid expansion of IoT deployments, progress in AI model compression and algorithm optimization, and the maturation of advanced process nodes and heterogeneous computing architectures (CPU combined with GPU, NPU, or ASIC) have significantly reduced the cost and complexity of deploying edge AI solutions, accelerating their adoption across a wide range of end-use scenarios.

This report studies the global Edge AI ICs production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Edge AI ICs and provides market size (US\$ million) and Year-over-Year (YoY) Growth, considering 2025 as the base year. This report explores demand trends and competition, as well as details the characteristics of Edge AI ICs that contribute to its increasing demand across many markets.

## Highlights and key features of the study

Global Edge AI ICs total production and demand, 2021-2032, (K Units)

Global Edge AI ICs total production value, 2021-2032, (USD Million)

Global Edge AI ICs production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (K Units), (based on production site)

Global Edge AI ICs consumption by region & country, CAGR, 2021-2032 & (K Units)

U.S. VS China: Edge AI ICs domestic production, consumption, key domestic manufacturers and share

Global Edge AI ICs production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (K Units)

Global Edge AI ICs production by Type, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

Global Edge AI ICs production by Application, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

This report profiles key players in the global Edge AI ICs market based on the following parameters - company overview, production, value, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include NVIDIA, Intel, AMD Xilinx, Google, Qualcomm, NXP, STMicroelectronics, Texas Instruments, Kneron, Hailo, etc.

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

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the World Edge AI ICs market

### **Detailed Segmentation:**

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (K Units) and average price (US\$/Unit) by manufacturer, by Type, and by Application. Data is given for the years 2021-2032 by year with 2025 as the base year, 2026 as the estimate year, and 2027-2032 as the forecast year.

Global Edge AI ICs Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Edge AI ICs Market, Segmentation by Type:

Audio And Sound Processing

Machine Vision

Sensor Data Analysis

Others

Global Edge AI ICs Market, Segmentation by Computing Performance:

Low Performance (10 TOPS)

Global Edge AI ICs Market, Segmentation by Power:

Ultra-low Power (mW-level)

Low Power (

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