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Global AI on EDGE Semiconductor Market Growth 2024-2030

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Abstracts

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AI on EDGE (Edge AI) is the deployment of AI applications in devices throughout the physical world. It’s called “edge AI” because the AI computation is done near the user at the edge of the network, close to where the data is located, rather than centrally in a cloud computing facility or private data centre.

The global AI on EDGE Semiconductor market size is projected to grow from US$ 3175 million in 2024 to US$ 8211 million in 2030; it is expected to grow at a CAGR of 17.2% from 2024 to 2030.

LP Information, Inc. (LPI) ' newest research report, the “AI on EDGE Semiconductor Industry Forecast” looks at past sales and reviews total world AI on EDGE Semiconductor sales in 2023, providing a comprehensive analysis by region and market sector of projected AI on EDGE Semiconductor sales for 2024 through 2030. With AI on EDGE Semiconductor sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US$ millions of the world AI on EDGE Semiconductor industry.

This Insight Report provides a comprehensive analysis of the global AI on EDGE Semiconductor 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 AI on EDGE Semiconductor portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms’ unique position in an accelerating global AI on EDGE Semiconductor market.

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This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for AI on EDGE Semiconductor 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 AI on EDGE Semiconductor.

The core manufacturers of global AI on EDGE Semiconductor include NVIDIA, Intel and AMD Xilinx. The top three companies have a market share of about 45%. Taiwan is the world's largest market for AI on EDGE Semiconductor with a market share of about 59%, followed by China and North America with 11% and 10%, respectively. In terms of product type, Machine Vision is the largest segment with approximately 81% market share. In terms of application, Automotive is the largest downstream segment, accounting for about 43% of the market.

This report presents a comprehensive overview, market shares, and growth opportunities of AI on EDGE Semiconductor market by product type, application, key manufacturers and key regions and countries.

Segmentation by Type:

Audio And Sound Processing

Machine Vision

Sensor Data Analysis

Others

Segmentation by Application:

Automotive

Robotics

Smart Manufacturing

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- Smart City
- Security & Surveillance
- 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

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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

Intel

AMD Xilinx

Google

Qualcomm

NXP

STMicroelectronics

Texas Instruments

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Kneron

Hailo

Ambarella

Hisilicon

Cambricon

Horizon Robotics

Black Sesame Technologies

Corerain

Amlogic

Ingenic Semiconductor

Fuzhou Rockchip Electronics

OmniVision

Key Questions Addressed in this Report

What is the 10-year outlook for the global AI on EDGE Semiconductor market?

What factors are driving AI on EDGE Semiconductor market growth, globally and by region?

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

How do AI on EDGE Semiconductor market opportunities vary by end market size?

How does AI on EDGE Semiconductor break out by Type, by Application?

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