

Global Edge AI Market

<https://marketpublishers.com/r/G89A250A0A41EN.html>

Date: June 2025

Pages: 124

Price: US\$ 4,650.00 (Single User License)

ID: G89A250A0A41EN

Abstracts

Summary:

The global market for edge AI was valued at \$8.7 billion in 2024 and is estimated to increase from \$11.8 billion in 2025 to reach \$56.8 billion by 2030, at a compound annual growth rate (CAGR) of 36.9% from 2025 through 2030.

Edge AI, or artificial intelligence at the edge, refers to the use of AI algorithms and machine learning (ML) models on local devices like sensors, IoT devices, smartphones, drones, cameras and edge servers. Unlike AI that relies on processing in data centers, edge AI analyzes data where it is generated, thereby ensuring real-time processing. Edge AI is ideal for low-latency applications performed in milliseconds and without internet access. The concept combines two emerging technologies: edge computing, which involves local data processing, and AI, which leverages ML to mimic human reasoning. This combination allows devices to make independent decisions, such as a security camera detecting intrusions instantly.

Edge AI is useful in many applications, such as self-driving cars, AI-powered instruments, smart virtual assistants, predictive maintenance, intelligent forecasting, security cameras, smart appliances and health monitoring devices. The global edge AI market is driven by increasing demand for real-time data processing, advances in edge computing technologies, and the proliferation of IoT devices. The adoption of edge devices, real-time processing needs, and industry-specific applications all drive the market's growth. For instance, healthcare applications, such as remote patient monitoring through on-device data analysis and manufacturing, with predictive maintenance using sensor data, contribute significantly to demand for edge AI.

Report Scope

This report examines the trends in the global edge AI market, using 2024 as the base year and projecting data from 2025 through 2030. The report analyzes the global market revenues (\$ millions) by offering, end-user industry and the regions of North America, Europe, Asia-Pacific and Rest of the World (RoW).

The report examines the market's drivers and challenges, the emerging technologies, patent activity and the competitive landscape for the leading companies. It analyzes environmental, social and corporate governance (ESG) developments. The report concludes with profiles of the significant edge AI companies and a look at their market and technological strategies.

Report Includes

60 data tables and 50 additional tables

Analyses of global market trends for artificial intelligence in an edge-computing environment, with revenue data from 2024, estimates for 2025, and projected CAGRs through 2030

Estimates of the size and revenue prospects for the global edge AI market, along with a market share analysis by offering (component), deployment type, end-use industry and region

Facts and figures pertaining to market dynamics, technological advancements, regulations, industry structure and the impacts of macroeconomic variables

Insights derived from Porter's Five Forces model, as well as global supply chain and SWOT analyses

An analysis of patents and emerging trends and developments in patent activity

Overview of sustainability trends and ESG developments, with emphasis on consumer attitudes, and the ESG scores and practices of leading companies

Analysis of the industry structure, including companies' market shares and rankings, strategic alliances, M&A activity and a venture funding outlook

Company profiles of major players within the industry, including Microsoft, Nvidia Corp., Alphabet Inc. (Google Inc.), Intel Corp., and Amazon.com Inc.

Companies Mentioned

ADVANCED MICRO DEVICES INC.
ALPHABET INC. (GOOGLE INC.)
AMAZON.COM INC.
GORILLA TECHNOLOGY GROUP
HAILO TECHNOLOGIES LTD.
HUAWEI TECHNOLOGIES CO. LTD.
IBM CORP.
INFINEON TECHNOLOGIES AG
INTEL CORP.
MEDIATEK
META
MICROSOFT
NVIDIA CORP.
QUALCOMM TECHNOLOGIES INC.
VEEA INC.

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ADVANCED MICRO DEVICES INC.

ALPHABET INC. (GOOGLE INC.)

AMAZON.COM INC.

GORILLA TECHNOLOGY GROUP

HAILO TECHNOLOGIES LTD.

HUAWEI TECHNOLOGIES CO. LTD.

IBM CORP.

INFINEON TECHNOLOGIES AG

INTEL CORP.

MEDIATEK

META

MICROSOFT

NVIDIA CORP.

QUALCOMM TECHNOLOGIES INC.

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