

Global Inference AI Chip Market 2025 by Manufacturers, Regions, Type and Application, Forecast to 2031

<https://marketpublishers.com/r/G16D92D55051EN.html>

Date: August 2025

Pages: 124

Price: US\$ 3,480.00 (Single User License)

ID: G16D92D55051EN

Abstracts

According to our (Global Info Research) latest study, the global Inference AI Chip market size was valued at US\$ 14620 million in 2024 and is forecast to a readjusted size of USD 68980 million by 2031 with a CAGR of 25.1% during review period.

Inference AI chips are hardware accelerators specially designed to perform artificial intelligence model inference tasks. Compared with traditional processors (such as CPUs), inference AI chips can efficiently handle a large number of matrix operations and vector calculations in machine learning models by optimizing the computing architecture, significantly improving inference speed and energy efficiency. They usually integrate a large number of parallel computing units and specialized hardware modules, such as tensor processing units (TPU), neural network processing units (NPU), etc., which can accelerate the inference process of deep learning models in edge devices or data centers. Inference AI chips are widely used in scenarios that require efficient reasoning, such as autonomous driving, smart cameras, speech recognition, and recommendation systems.

This report is a detailed and comprehensive analysis for global Inference AI Chip 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 Inference AI Chip market size and forecasts, in consumption value (\$ Million), sales quantity (Million Units), and average selling prices (US\$/K Units), 2020-2031

Global Inference AI Chip market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (Million Units), and average selling prices (US\$/K Units), 2020-2031

Global Inference AI Chip market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (Million Units), and average selling prices (US\$/K Units), 2020-2031

Global Inference AI Chip market shares of main players, shipments in revenue (\$ Million), sales quantity (Million Units), and ASP (US\$/K Units), 2020-2025

The Primary Objectives in This Report Are:

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

To assess the growth potential for Inference AI Chip

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 Inference AI Chip 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 Nvidia, Huawei, Intel, Qualcomm, Advanced Micro Devices, Enflame Technology, Google, Amazon, Microsoft, Baidu, etc.

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

Market Segmentation

Inference AI Chip market is split by Type and by Application. For the period 2020-2031, 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

Cloud-based Inference AI Chip

Terminal Inference AI Chip

Market segment by Application

Data Center

Autopilot

Other

Major players covered

Nvidia

Huawei

Intel

Qualcomm

Advanced Micro Devices

Enflame Technology

Google

Amazon

Microsoft

Baidu

Alibaba Cloud

Tencent Cloud

Cambrian

Bitmain Technologies

ThinkForce

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 Inference AI Chip product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Inference AI Chip, with price, sales quantity, revenue, and global market share of Inference AI Chip from 2020 to 2025.

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

Chapter 4, the Inference AI Chip breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2020 to 2031.

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 2020 to 2031.

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 2020 to 2025. and Inference AI Chip market forecast, by regions, by Type, and by Application, with sales and revenue, from 2026 to 2031.

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 Inference AI Chip.

Chapter 14 and 15, to describe Inference AI Chip sales channel, distributors, customers, research findings and conclusion.

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