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Global AI Over Edge Computing Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global AI Over Edge Computing market size is expected to reach $ 136866 million by 2032, rising at a market growth of 13.9% CAGR during the forecast period (2026-2032).

AI Over Edge Computing) refers to the integration of artificial intelligence algorithms, machine learning models, and edge computing infrastructure to enable data processing, analysis, and intelligent decision-making closer to the data source rather than relying entirely on centralized cloud platforms. By deploying AI models on edge devices, edge servers, gateways, and industrial computing nodes, AI Over Edge Computing reduces latency, improves real-time response capabilities, enhances data privacy and security, and lowers bandwidth requirements. It is widely applied in autonomous vehicles, industrial automation, smart manufacturing, intelligent video analytics, robotics, healthcare devices, smart cities, and IoT systems, where fast and reliable local intelligence is essential.

The demand for AI Over Edge Computing is accelerating as enterprises and industries increasingly require real-time AI inference, low-latency decision-making, and secure localized data processing. The rapid expansion of IoT devices, autonomous systems, industrial digitalization, and AI-powered applications is driving adoption of edge AI hardware, AI accelerators, edge servers, and cloud-edge collaboration platforms. Business opportunities are concentrated in high-growth areas such as smart manufacturing, autonomous driving, AI vision, robotics, telecommunications edge networks, and enterprise private AI deployment. In addition, the increasing cost and regulatory challenges associated with transferring massive volumes of data to centralized cloud environments are encouraging organizations to adopt edge AI architectures, creating opportunities for semiconductor companies, infrastructure

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providers, cloud service providers, and industry-specific solution vendors to develop integrated AI edge ecosystems.

Report Scope

This report studies the global AI Over Edge Computing demand, key companies, and key regions.

This report is a detailed and comprehensive analysis of the world market for AI Over Edge Computing, 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 AI Over Edge Computing that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global AI Over Edge Computing total market, 2021-2032, (USD Million)

Global AI Over Edge Computing total market by region & country, CAGR, 2021-2032, (USD Million)

U.S. VS China: AI Over Edge Computing total market, key domestic companies, and share, (USD Million)

Global AI Over Edge Computing revenue by player, revenue and market share 2021-2026, (USD Million)

Global AI Over Edge Computing total market by Deployment Architecture, CAGR, 2021-2032, (USD Million)

Global AI Over Edge Computing total market by Application, CAGR, 2021-2032, (USD Million)

This report profiles major players in the global AI Over Edge Computing market based on the following parameters - company overview, revenue, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include NVIDIA, Intel, Qualcomm, AMD, Microsoft, Amazon Web Services (AWS), Google, IBM, Cisco Systems, Hewlett Packard Enterprise (HPE), etc.

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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 AI Over Edge Computing market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US$ Millions), by player, by regions, by Deployment Architecture, 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 AI Over Edge Computing Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global AI Over Edge Computing Market, Segmentation by Deployment Architecture:

Device-Level Edge AI: <10W

Gateway-Level Edge AI: 10–100W

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Server-Level Edge AI: 100W–5kW

Cluster-Level Edge AI: >5kW

Global AI Over Edge Computing Market, Segmentation by AI Computing Performance:

Low Performance: <10 TOPS

Medium Performance: 10–100 TOPS

High Performance: 100–1,000 TOPS

Ultra High Performance: >1,000 TOPS

Global AI Over Edge Computing Market, Segmentation by Processing Location:

On-Device AI

Near-Edge AI

Regional Edge AI

Cloud-Integrated Edge AI

Others

Global AI Over Edge Computing Market, Segmentation by Application:

Autonomous Vehicles and Transportation

Industrial Automation and Manufacturing

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Smart City and Surveillance

Healthcare and Medical Devices

Telecommunications and 5G

Aerospace and Defense

Consumer Electronics

Others

Companies Profiled:

NVIDIA

Intel

Qualcomm

AMD

Microsoft

Amazon Web Services (AWS)

Google

IBM

Cisco Systems

Hewlett Packard Enterprise (HPE)

Dell Technologies

Supermicro

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Advantech

Huawei

ZTE

China Telecom

Alibaba Cloud

Tencent Cloud

Baidu

Inspur

Lenovo

Hikvision

Dahua Technology

SenseTime

Horizon Robotics

Sony Semiconductor Solutions

NEC Corporation

Fujitsu

Hitachi

Renesas Electronics

Toshiba

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Mitsubishi Electric

FANUC

Omron

Key Questions Answered

1. How big is the global AI Over Edge Computing market?
2. What is the demand of the global AI Over Edge Computing market?
3. What is the year over year growth of the global AI Over Edge Computing market?
4. What is the total value of the global AI Over Edge Computing market?
5. Who are the Major Players in the global AI Over Edge Computing market?
6. What are the growth factors driving the market demand?

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