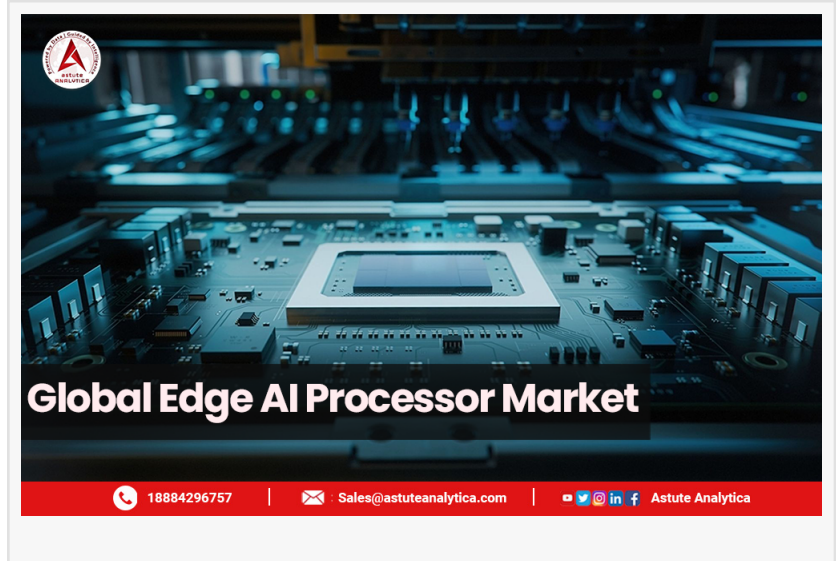


Edge AI Processor Market was Valued at US\$ 2,163.2 Million in 2023 and is Projected to Hit US\$ 9,891.5 Million by 2032

CHICAGO, CA, UNITED STATES,
September 23, 2024 /

EINPresswire.com/ -- The global [Edge AI Processor Market](#) is expected to witness substantial growth, with its market size projected to surge from US\$ 2,163.2 million in 2023 to US\$ 9,891.5 million by 2032, reflecting a robust compound annual growth rate (CAGR) of 22.0% during the forecast period from 2023 to 2032. This remarkable expansion is driven by increasing demand for low-latency processing, real-time decision-making capabilities, and the growing adoption of AI at the network's edge.



For more information, please visit <https://www.astuteanalytica.com/request-sample/edge-ai-processor-market>

Edge AI processors are revolutionizing various industries by enabling faster processing of data closer to the source, reducing the need for cloud computing and enhancing the efficiency of applications such as autonomous vehicles, smart cities, industrial IoT, and healthcare devices. The rising focus on energy efficiency, privacy concerns, and the need for real-time insights is fueling the demand for edge AI processors globally.

Key highlights include:

1. **Market Growth:** The market is projected to grow from US\$ 2,163.2 million in 2023 to US\$ 9,891.5 million by 2032, with a CAGR of 22.0%.

The escalating volume of data generated by various devices and applications serves as a fundamental driver for the global edge AI processor market. The proliferation of Internet of Things (IoT) devices is a primary contributor to this surge in data. By 2025, it's estimated that

there will be over 75 billion IoT devices worldwide, a massive increase from around 31 billion in 2020. This explosion in IoT deployment is generating an unprecedented amount of data, estimated to reach 79.4 zettabytes by 2025. The growing adoption of smart home devices is also a major factor. In 2020, the global smart home market is to be at \$154 billion in 2024 and is projected to grow at a CAGR of 10.3% in the years to come. These smart home devices, including smart speakers, thermostats, and security cameras, contribute significantly to the data deluge.

The rise in edge-based AI applications in industries such as automotive, healthcare, and manufacturing is further creating a need for localized, real-time data processing. The automotive sector alone, with its push towards autonomous vehicles, is expected to fuel considerable demand. The market for automotive AI, which was valued at around \$2 billion in 2020, is expected to grow to over \$14 billion by 2025. This burgeoning volume of data necessitates processing power closer to the source, driving the demand for edge AI processors. These processors are designed to handle vast amounts of data efficiently, reducing latency, and ensuring faster decision-making processes.

Some of the prominent companies in the edge AI processor market include:

- Advanced Micro Devices, Inc.
- Huawei Technologies
- IBM
- Intel Corporation
- Hailo
- NVIDIA Corporation
- Mythic
- MediaTek Inc.
- Graphcore
- STMicroelectronics
- Other Prominent Companies

For more information on the edge AI processor market, visit: <https://www.astuteanalytica.com/industry-report/edge-ai-processor-market>

Key components of edge AI processors include:

1. Central Processing Unit (CPU)

- Graphics Processing Unit (GPU)
- Field Programmable Gate Arrays (FPGA)
- Application Specific Integrated Circuits (ASIC)

2. Memory

- Consumer Devices
- Enterprise Devices

IoT Applications

- Robotics
- Smartphones and Mobile Devices
- Internet of Things (IoT) Devices
- Smart Cameras and Surveillance Systems
- Autonomous Vehicles
- Industrial Automation
- Others

IoT Market Segments

- Consumer Electronics
- Healthcare
- Automotive
- Retail
- Security and Surveillance
- Government
- Agriculture
- Others (Manufacturing, Construction, etc.)

IoT Market Regions

- North America
 - o The U.S.
 - o Canada
 - o Mexico
- Europe
 - o Western Europe
 - The UK
 - Germany
 - France
 - Italy
 - Spain
 - Rest of Western Europe
 - o Eastern Europe
 - Poland
 - Russia
 - Rest of Eastern Europe

- Asia Pacific
 - o China
 - o India
 - o Japan
 - o Australia & New Zealand
 - o South Korea
 - o ASEAN
 - o Rest of Asia Pacific
- Middle East & Africa (MEA)
 - o Saudi Arabia
 - o South Africa
 - o UAE
 - o Rest of MEA
- South America
 - o Argentina
 - o Brazil
 - o Rest of South America

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