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Global Edge AI Processor Market Size study, by Type (Central Processing Unit (CPU), Graphics Processing Unit (GPU), Application Specific Integrated Circuit (ASIC)), by Device Type (Consumer Devices, Enterprise Devices), by End-Use (Automotive and Transportation, Healthcare, Consumer Electronics, Retail and E-commerce, Manufacturing, Others) and Regional Forecasts 2022-2028

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Abstracts

Global Edge AI Processor Market is valued at approximately USD XXX million in 2021 and is anticipated to grow with a healthy growth rate of more than 16.0% over the forecast period 2022-2028. Edge AI processors are a type of microprocessor created specifically for speeding up embedded AI applications on edge devices. Modern technologies such as smart speakers, smartphones, laptops, drones, robotics, self-driving cars, and video analytics devices such as security cameras all require edge AI processors. Edge AI processors use field-programmable gate arrays (FPGAs), graphics processing units (GPUs), and application-specific integrated circuits (ASICs) to boost the processing speed needed for AI algorithms. The market growth is driven by rise in demand for low latency and real-time processing on edge devices and increase in enterprise workloads on the cloud. By 2021, 83 percent of chemical manufacturing companies and the government will have expanded their cloud workloads. This increase is most likely the result of efforts in response to the COVID-19 epidemic. Cloud workloads increased across all industries, except for energy, which saw output decreases during the epidemic. Furthermore, according to a survey conducted by the Cloud Security Alliance (CSA) among 200 IT and IT security leaders, 73 percent of respondents mentioned data privacy and security as their top concerns. Moreover,

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growth in demand for edge computing in IoT boost the market opportunities in upcoming years. However, limited number of AI experts impedes the growth of the market over the forecast period of 2022-2028.

The key regions considered for the global Edge AI Processor Market study include Asia Pacific, North America, Europe, Latin America, and Rest of the World. North America is leading the overall market share, owing to continuous investments in artificial intelligence-related technologies and increasing focus on having in-house AI applications production. However, APAC is expected to be the fastest growing region due to increase in demand for video analytics devices and increased digital communication by governments.

Major market players included in this report are:
Qualcomm Technologies, Inc.
NVIDIA Corporation
Advanced Micro Devices, Inc.
Arm Limited
Samsung Electronics Co Ltd
Intel Corporation
Alphabet Inc.
Apple Inc.
Mythic
HiSilicon (Shanghai) Technologies Co Limited

The objective of the study is to define market sizes of different segments & countries in recent years and to forecast the values to the coming eight years. The report is designed to incorporate both qualitative and quantitative aspects of the industry within each of the regions and countries involved in the study. Furthermore, the report also caters the detailed information about the crucial aspects such as driving factors & challenges which will define the future growth of the market. Additionally, the report shall also incorporate available opportunities in micro markets for stakeholders to invest along with the detailed analysis of competitive landscape and Application offerings of key players. The detailed segments and sub-segment of the market are explained below:

By Type:
Central Processing Unit (CPU)
Graphics Processing Unit (GPU)
Application Specific Integrated Circuit (ASIC)

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By Device Type:
Consumer Devices
Enterprise Devices
By End-Use:
Automotive and Transportation
Healthcare
Consumer Electronics
Retail and Ecommerce
Manufacturing
Others
By Region:
North America
U.S.
Canada
Europe
UK
Germany
France
Spain
Italy
ROE

Asia Pacific
China
India
Japan
Australia
South Korea
RoAPAC
Latin America
Brazil
Mexico
Rest of the World

Furthermore, years considered for the study are as follows:

Historical year – 2018, 2019, 2020
Base year – 2021
Forecast period – 2022 to 2028

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Target Audience of the Global Edge AI Processor Market in Market Study:

Key Consulting Companies & Advisors
Large, medium-sized, and small enterprises
Venture capitalists
Value-Added Resellers (VARs)
Third-party knowledge providers
Investment bankers
Investors

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