

US Application Specific Integrated Circuit Market Size study, by Product Type (Full Custom ASIC, Semi-custom ASIC, Programmable ASIC) by Application (Telecommunication, Industrial, Automotive, Consumer Electronics, Others) Forecasts 2022-2032

<https://marketpublishers.com/r/U96EF659E686EN.html>

Date: July 2024

Pages: 200

Price: US\$ 4,950.00 (Single User License)

ID: U96EF659E686EN

Abstracts

US Application Specific Integrated Circuit Market is valued approximately USD 2.80 billion in 2023 and is anticipated to grow with a healthy growth rate of more than 7.31% over the forecast period 2024-2032. An Application-Specific Integrated Circuit (ASIC) is a custom type of integrated circuit (IC) designed for a specific use or application. Unlike general-purpose ICs, ASICs are precisely engineered to fulfill the unique demands of a particular task, resulting in exceptional efficiency and optimization for their designated function. Also, technological advancements in semiconductor manufacturing processes, such as the transition to smaller nodes like 7nm and beyond, enable ASIC designers to pack more functionality into smaller chip sizes while enhancing performance and power efficiency. This trend contributes to the development of more complex ASICs with higher levels of integration. Which anticipated to support the growth of US Application Specific Integrated Circuit Market.

Moreover, the growing demand for High-Performance Computing (HPC) solutions in areas such as data centers, scientific research, and cloud computing is fueling the demand for ASICs. These chips are capable of handling complex computations and data processing tasks with high efficiency, making them essential for HPC applications. Also, the semiconductor industry in the US continues to see significant investment in research and development, manufacturing facilities, and infrastructure. This investment fosters innovation and accelerates the development of advanced ASIC technologies, further driving market growth. Additionally, companies in the ASIC market are forming strategic partnerships and collaborations to leverage each other's expertise, resources,

and technologies. These partnerships enable faster time-to-market, greater product differentiation, and enhanced competitiveness, contributing to market growth. However, high production costs, and fluctuating raw material prices are expected to hinder the market growth during the forecast period 2024-2032.

Major market player included in this report are:

Broadcom Inc.

Socionext America Inc.

Tekmos Inc.

Company 4

Company 5

Company 6

Company 7

Company 8

Company 9

Company 10

The detailed segments and sub-segment of the market are explained below:

By Product Type

Full Custom ASIC

Semi-custom ASIC

Programmable ASIC

By Application

Telecommunication

Industrial

Automotive

Consumer Electronics

Others

Years considered for the study are as follows:

Historical year – 2022

Base year – 2023

Forecast period – 2024 to 2032

Key Takeaways:

Market Estimates & Forecast for 10 years from 2022 to 2032.

Annualized revenues and Country level analysis for each market segment.
Detailed analysis of geographical landscape with Country level analysis of major regions.
Competitive landscape with information on major players in the market.
Analysis of key business strategies and recommendations on future market approach.
Analysis of competitive structure of the market.
Demand side and supply side analysis of the market

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