

ASIC Chip Market Report: Trends, Forecast and Competitive Analysis [2024-2030]

<https://marketpublishers.com/r/A9C748F87FF4EN.html>

Date: April 2024

Pages: 150

Price: US\$ 4,850.00 (Single User License)

ID: A9C748F87FF4EN

Abstracts

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ASIC Chip Market Trends and Forecast

The future of the global ASIC chip market looks promising with opportunities in the data processing, consumer electronics, telecommunication system, industrial, and other industries. The global ASIC chip market is expected to reach an estimated \$49.4 billion by 2030 with a CAGR of 7.8% from 2024 to 2030. The major drivers for this market are increasing advancement in chip technology, rising demand for customizable ICs, and growing usage in consumer electronic devices.

Lucintel forecasts that the semi-based custom ASIC chips will remain the largest segment over the forecast period due to its cost effectiveness, reduced risk, and time saving properties.

Telecommunication system will remain the largest end use market due to the growing demand from various telephone landline networks, mobile networks, and cable TV networks

Asia Pacific is expected to remain the largest market by value and volume and it is also expected to witness the highest growth over the forecast period due to the growth in consumer electronic devices & telecommunication products.

Asia Pacific is expected to remain the largest

1. United States: Companies like Nvidia and AMD are leading ASIC chip initiatives, with Nvidia announcing its next-generation GPU architecture. US government aims to strengthen domestic chip manufacturing under the CHIPS Act.
2. China: Chinese firms like Huawei and Semiconductor Manufacturing International Corporation (SMIC) are investing in ASIC chip development, with Huawei targeting increased chip self-sufficiency. China aims to become a global semiconductor leader by 2030.
3. Taiwan: Companies like TSMC and MediaTek are driving ASIC chip innovation, with TSMC announcing plans to build new chip manufacturing facilities. Taiwan government supports semiconductor industry growth through funding and infrastructure development.
4. South Korea: Korean companies like Samsung and SK Hynix are investing in ASIC chip technologies, with Samsung announcing advancements in chip fabrication. South Korean government aims to strengthen semiconductor supply chain through incentives and support.

Emerging Trends in the ASIC Chip Market

Emerging trend, which has a direct impact on the dynamics of the industry, includes advance 7-nm technology for ASIC fabrication and structured ASICs for 5G, AI, cloud, and edge workloads and development of ultra-small case size capacitors for portable electronic devices.

A total of 79 figures / charts and 60 tables are provided in this 162-page report to help in your business decisions. Sample figures with insights are shown below.

ASIC Chip Market by Segment

The study includes trends and forecasts for the global ASIC chip market by type, end use industry, and region as follows:

By Type [\$M shipment analysis for 2018 – 2030]:

Semi-Based Custom

Programmable Logic Device

Full Custom

By End Use Industry [\$M shipment analysis for 2018 – 2030]:

Data Processing System

Consumer Electronics

Telecommunication System

Industrial

Others

By Region [\$M shipment analysis for 2018 – 2030]:

North America

United States

Canada

Mexico

Europe

United Kingdom

Germany

France

Asia Pacific

China

Japan

Taiwan

The Rest of the World

List of ASIC Chip Companies

Companies in the market compete on the basis of product quality offered. Major players in this market focus on expanding their manufacturing facilities, R&D investments, infrastructural development, and leverage integration opportunities across the value chain. With these strategies ASIC chip companies cater increasing demand, ensure competitive effectiveness, develop innovative products & technologies, reduce production costs, and expand their customer base. Some of the ASIC chip companies profiled in this report includes.

AMD

ON Semiconductor Corporation

TSMC

Intel Corporation

Infineon Technologies

Samsung

Bitmain Technologies

Nvidia Corporation

Texas Instruments

Maxim Integrated Products

Recent Developments in ASIC Chip Market

In October 2020, AMD announced that it was acquiring FPGA maker company Xilinx in an all-stock transaction valued at \$35 billion for the data center chip business. The deal is anticipated to close in the first quarter of 2022. It had been delayed from the previous target, late 2021.

In December 2019, Intel Corporation acquired Habana Labs, an Israel-based developer of programmable deep learning accelerators for data centers, for approximately \$2 billion. The acquisition has strengthened Intel's artificial intelligence (AI) portfolio.

In October 2019, Bitmain collaborated with DMG, a blockchain and technology company. In this collaboration, DMG provides management and hosting services for Bitmain's Texas facility. Together they are working toward expansion of the capacity of the Texas facility, and have ensured efficient operation of Bitmain's newest technology ASIC miners

Features of ASIC Chip Market

Market Size Estimates: ASIC Chip market size estimation in terms of value (\$M)

Trend and Forecast Analysis: Market trends (2018-2023) and forecast (2024-2030) by various segments and regions.

Segmentation Analysis: Market size by various segments, such as type and end use industry in terms of value.

Regional Analysis: ASIC Chip market breakdown by North America, Europe, Asia Pacific, and the Rest of the World.

Growth Opportunities: Analysis of growth opportunities in different type, end use industry, and regions for the ASIC chip market.

Strategic Analysis: This includes M&A, new product development, and competitive landscape for the ASIC chip market.

Analysis of competitive intensity of the industry based on Porter's Five Forces

model.

FAQ

Q1. What is the ASIC chip market size?

Answer: The global ASIC chip market is expected to reach an estimated \$49.4 billion by 2030.

Q2. What is the growth forecast for ASIC chip market?

Answer: The ASIC chip market is expected to grow at a CAGR of 7.8% from 2024 to 2030.

Q3. What are the major drivers influencing the growth of the ASIC chip market?

Answer: The major drivers for this market are increasing advancement in chip technology, rising demand for customizable ICs, and growing usage in consumer electronic devices.

Q4. What are the major applications or end use industries for ASIC chip?

Answer: Telecommunication system will remain the largest end use market due to the growing demand from various telephone landline networks, mobile networks, and cable TV networks.

Q5. What are the emerging trends in ASIC chip market?

Answer: Emerging trend, which has a direct impact on the dynamics of the industry, includes advanced 7-nm technology for ASIC fabrication and structured ASICs for 5G, AI, cloud, and edge workloads and development of ultra-small case size capacitors for portable electronic devices.

Q6. What are the key ASIC chip companies?

Answer: Some of the key ASIC chip companies are as follows:

AMD

ON Semiconductor Corporation

TSMC

Intel Corporation

Infineon Technologies

Samsung

Bitmain Technologies

Nvidia Corporation

Texas Instruments

Maxim Integrated Products

Q7. Which ASIC chip by type segment will be the largest in future?

Answer: Lucintel forecasts that the semi-based custom ASIC chips will remain the largest segment over the forecast period due to its cost effectiveness, reduced risk, and time saving properties.

Q8: In ASIC chip market, which region is expected to be the largest in next 5 years?

Answer: Asia Pacific is expected to remain the largest region and witness the highest growth over next 5 years.

Q9. Do we receive customization in this report?

Answer: Yes, Lucintel provides 10% Customization Without any Additional Cost.

This report answers following 11 key questions

Q.1 What are some of the most promising potential, high-growth opportunities for the global ASIC chip market by type (semi-based custom, programmable logic device, and

full custom), end use industry (data processing system, consumer electronics, telecommunication system, industrial, and others), and region (North America, Europe, Asia Pacific, and the Rest of the World)?

Q. 2 Which segments will grow at a faster pace and why?

Q.3 Which regions will grow at a faster pace and why?

Q.4 What are the key factors affecting market dynamics? What are the drivers and challenges of the market?

Q.5 What are the business risks and threats to the market?

Q.6 What are the emerging trends in this market and the reasons behind them?

Q.7 What are the changing demands of customers in the market?

Q.8 What are the new developments in the market? Which companies are leading these developments?

Q.9 Who are the major players in this market? What strategic initiatives are being implemented by key players for business growth?

Q.10 What are some of the competitive products and processes in this area and how big of a threat do they pose for loss of market share via material or product substitution?

Q.11 What M & A activities have taken place in the last 5 years in this market?

For any questions related to ASIC chip market or related ASIC chip market share, ASIC chip market analysis, and ASIC chip market size, write to Lucintel analysts at helpdesk@lucintel.com. We will be glad to get back to you soon.

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