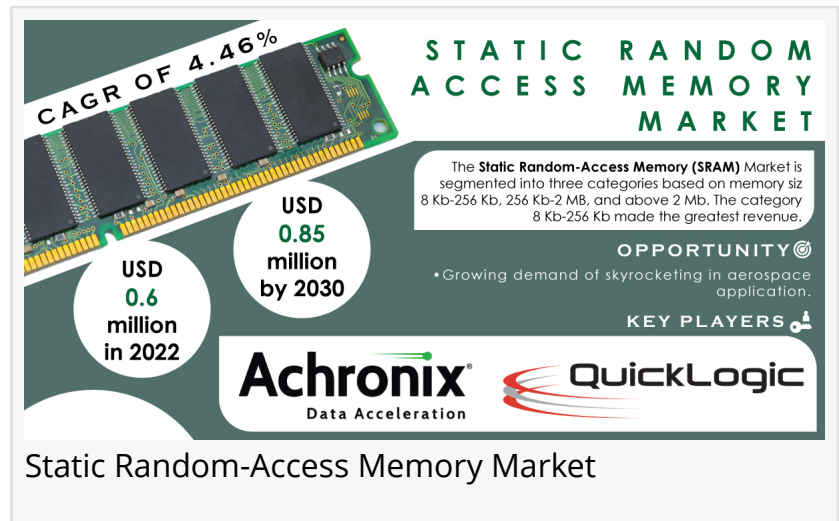


Static Random-Access Memory Market to USD 0.85 billion by 2030 owing to Rapid Technological Advancements

Static Random-Access Memory Market Research Report Provide Industry Overview

AUSTIN, TEXAS, UNITED STATES, April 4, 2024 /EINPresswire.com/ -- The SNS Insider report indicates that the [Static Random-Access Memory Market](#) Size was valued at USD 0.6 billion in 2022 and is expected to reach USD 0.85 billion by 2030, growing at a CAGR of 4.46% over the forecast period 2023-2030.



The Static Random-Access Memory (SRAM) market is experiencing robust growth driven by the increasing demand for high-performance computing solutions, advancements in technology, expansion of consumer electronics, cloud computing, data center expansion, R&D investments, and emerging trends such as autonomous vehicles and IoT. As the demand for faster, more reliable, and energy-efficient memory solutions continues to rise across various industries, SRAM is poised to play a pivotal role in shaping the future of computing and digital transformation.

“

SRAM is an excellent option for aerospace applications since it offers a number of advantages. Low power consumption, great dependability, and faster processing speed”

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Top Key Players of Static Random-Access Memory Market for Knowledge:

- Achronix Semiconductor Corporation (U.S.)
- Quick Logic Corporation (U.S.)
- Cobham Limited (U.K.)
- Efinix Inc. (U.S.)

Flex Logix Technologies Inc. (U.S.)
Intel Corporation (U.S.)
Xilinx (U.S.)
Aldec Inc. (U.S.)
GOWIN Semiconductor Corp. (US.)
Lattice Semiconductor (U.S.)
Omnitek (U.S.)
EnSilica (U.K.)
SK Hynix System Inc.
Market Segmentation of Static Random-Access Memory:

By Type

Asynchronous SRAM
Pseudo SRAM
Serial SRAM
Synchronous SRAM
Others

By Memory Size

8 Kb-256 Kb
256Kb-2 MB
Above 2 Mb

By Applications

Automotive
Industrial
Aerospace & Defense
Consumer Electronics
IT & Telecommunication
Others

Market Report Scope

A type of semiconductor memory known as static random-access memory (SRAM) uses a bistable flip-flop circuit made up of cross-coupled inverters to store data. SRAM is faster and uses less power than Dynamic Random Access Memory (DRAM) because it does not need to periodically refresh its contents to maintain its stored information. The manufacturing, distribution, and application of these specialized memory devices in diverse industries are all included in the SRAM market. The growing need for high-speed and low-power memory solutions across a range of applications, including computing, networking, and consumer electronics, has propelled the SRAM market's notable expansion. Because of SRAM's intrinsic qualities—like its quick read and write access times and low latency—it works well as cache memory in processors and other crucial applications where frequent and fast access to data is necessary.

Market Analysis:

SRAM is an excellent option for aerospace applications since it offers a number of advantages. Low power consumption, great dependability, and faster processing speed when compared to other memory types like dynamic random-access memory (DRAM) or magnetic storage devices are a few of these advantages. In contrast to ECC memories, static random-access memory (SRAM) is used in the avionics application since no battery backup is required. SRAM is additionally utilized in inertial guidance systems (IGS). Because of this, there will be lucrative and plentiful prospects for the expansion of the market due to the increasing demand for static random-access memory (SRAM) in aerospace applications.

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Segmentation Analysis

Based on type

The asynchronous SRAM segment dominated the market. Asynchronous Static Random Access Memory (SRAM) operates at a lower voltage, offers faster access time, and uses fewer chip enable (E) pins compared to other types of RAM.

Based on memory

The 8 Kb–256 Kb category generated the most income, catering to the storage needs of microcontrollers, powerful microprocessors, and cache memory.

Growth Factors

The growth of the Static Random-Access Memory (SRAM) market is driven by several key factors. Firstly, the increasing demand for high-performance computing solutions across various industries such as aerospace, automotive, telecommunications, and healthcare is propelling the adoption of SRAM. These sectors require memory solutions that offer fast read and write access times, low latency, and high reliability, making SRAM an ideal choice.

Secondly, the proliferation of advanced technologies such as artificial intelligence (AI), machine learning (ML), Internet of Things (IoT), and 5G networks is fueling the need for faster and more efficient memory solutions. SRAM's ability to deliver high-speed data processing and low power consumption aligns with the requirements of these emerging technologies, driving its market growth.

Additionally, the rise in demand for smartphones, tablets, wearables, and other consumer electronics devices is contributing to the expansion of the SRAM market. These devices require high-performance memory solutions to support their functionality and deliver smooth user experiences. SRAM's compatibility with various electronic devices, coupled with its speed and power efficiency, positions it as a preferred choice for manufacturers in the consumer electronics industry.

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Impact of Russia-Ukraine War

The COVID-19 pandemic and the Russia-Ukraine War are expected to cause the global market for non-volatile static random-access memory to rise at a CAGR of 9% from 2022 to 2028. This market is primarily produced by companies like NXP, Technobox, BAE Systems, Microchip Technology, Cypress, Honeywell, Maxim Integrated, and STMicroelectronics.

Impact of Economic Slowdown

The economic slowdown has affected the demand for static random-access memory, particularly in sectors like consumer electronics and automotive, where reduced consumer spending has led to a decline in production and sales. For instance, the automotive industry faced a slowdown in sales due to supply chain disruptions, impacting the demand for SRAM used in vehicle systems.

Key Regional Development

Europe holds the second-largest market share for static random-access memory (SRAM) due to the growing need for high-performance computer hardware across various sectors. Germany dominates the market due to its robust industrial base and technological advancements. The United Kingdom represents the fastest-growing market in the European region.

Key Takeaways

Rapid technological advancements are driving the growth of the SRAM market.

Asynchronous SRAM and the 8 Kb–256 Kb memory segment dominate their respective markets due to their advantages in speed and storage capacity.

The impact of the Russia-Ukraine War and the COVID-19 pandemic is expected to shape the future growth trajectory of the SRAM market.

Recent Developments

In October 2022: Cypress Semiconductor Corp. completed its joint venture with SK Hynix System Inc., forming SkyHigh Memory Limited, which has commenced full operations after obtaining all necessary regulatory approvals.

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