

United Kingdom Semiconductor Market Report and Forecast 2023-2028

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Report description:

United Kingdom Semiconductor Market Report and Forecast 2023-2028

Market Outlook

According to the report by Expert Market Research (EMR), the United Kingdom semiconductor market attained a value of USD 13.12 billion in 2022. Aided by the growing demand for electronic devices and the increasing adoption of advanced technologies in various industries, the market is projected to further grow at a CAGR of 6.10% between 2023 and 2028 to reach a value of USD 17.16 billion by 2028.

Semiconductors are materials that possess properties between those of conductors and insulators. They are widely used in electronic devices, such as integrated circuits (ICs), transistors, and diodes, among others. Semiconductors play a crucial role in the development of advanced technologies and have a wide range of applications in industries such as automotive, aerospace, healthcare, and consumer electronics. The growth of the United Kingdom semiconductor market is primarily driven by the increasing demand for electronic devices. With the rising disposable income and changing lifestyles, consumers are increasingly spending on electronic devices such as smartphones, laptops, and smart appliances. These devices are powered by semiconductor components, which enable them to perform complex tasks and provide enhanced user experience. As the demand for electronic devices continues to grow, the need for semiconductor components is also expected to increase.

Another key factor contributing to the growth of the semiconductor United Kingdom semiconductor market is the increasing adoption of advanced technologies in various industries. For instance, the automotive industry is witnessing a shift towards electric and autonomous vehicles, which require a wide range of semiconductor components for efficient functioning. Similarly, the healthcare industry is leveraging advanced semiconductor technologies for the development of medical devices and diagnostic equipment. As more industries embrace advanced technologies, the demand for semiconductors is expected to grow further.

The United Kingdom semiconductor market is also benefiting from the ongoing expansion of the Internet of Things (IoT) ecosystem. IoT devices and systems rely on semiconductor components to enable seamless communication and data processing. With the growing adoption of IoT across various sectors, such as smart homes, industrial automation, and smart cities, the demand for semiconductor components is expected to increase. Moreover, the government's initiatives to support the growth of the technology sector are also propelling the United Kingdom semiconductor market. The government has introduced various

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policies and funding programs aimed at promoting research and development (R&D) in the semiconductor industry, attracting investments, and fostering innovation. These initiatives are expected to create a conducive environment for the growth of the semiconductor market in the country.

In addition to these factors, the United Kingdom semiconductor market is also driven by the increasing focus on renewable energy sources. Semiconductors play a critical role in the development of solar panels and other renewable energy systems. With the growing emphasis on reducing carbon emissions and increasing the share of renewable energy in the energy mix, the demand for semiconductor components in renewable energy applications is expected to grow. Furthermore, the advent of Industry 4.0 and the growing importance of artificial intelligence (AI) and machine learning (ML) in various industries are creating new opportunities for the United Kingdom semiconductor market. These advanced technologies require specialised semiconductor components, such as graphics processing units (GPUs) and application-specific integrated circuits (ASICs), to enable high-performance computing and data processing. As the adoption of AI and ML technologies continues to increase, the demand for advanced semiconductor components is expected to grow further.

Market Segmentation?

The market can be divided on the basis of technology, form, and end use.

Market Breakup by Technology

- Silicon (Simple) - Larger Node size greater than 180 NM
- Silicon (Complex) - Smaller Node size less than 180 NM
- Compound Semiconductors- Made from Two or More Filaments
- Others

Market Division by Form

- ICs
- Optoelectronics
- Discrete Semiconductors
- Sensors
- Others

Market Segmentation by End Use

- Automotive
- Industrial
- Data Centre
- Telecommunication
- Consumer Electronics
- Aerospace and Defence
- Healthcare
- Others

Competitive Landscape?

The EMR report looks into the market shares, plant turnarounds, capacities, investments, and acquisitions and mergers, among other major developments, of the United Kingdom semiconductor companies. Some of the major key players explored in the report by Expert Market Research are as follows:?

- ON Semiconductor Corporation
- Horiba, Ltd.
- Texas Instruments Incorporated
- NXP Semiconductors N.V.
- Renesas Electronics Corporation
- Intel Corporation

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- Samsung Electronics Co., Ltd.
- Qualcomm Technologies, Inc.
- SK Hynix Inc.
- Micron Technology, Inc.
- Taiwan Semiconductor Manufacturing Company, Ltd.
- Others

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*We at Expert Market Research always strive to give you the latest information. The numbers in the article are only indicative and may be different from the actual report.?

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