

Market Analysis: 2D Electronics Market, Oscillator Market, Air Flow Sensors Market forecasted for 2023-2030

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SEATTLE, WASHINGTON, USA, July 15, 2023 /EINPresswire.com/ -- The 2D Electronics Market is expected to grow from USD 1.80 Billion in 2022 to USD 4.20 Billion by 2030, at a CAGR of 11.00% during the forecast period. The major factors driving revenue growth in the 2D Electronics market include the increasing adoption of smartphones and other mobile devices, the expected growth of the Internet of Things (IoT), and the increasing demand for energy-efficient technologies. Additionally, the emergence of innovative 2D materials such as graphene, molybdenum disulfide, and black phosphorus is expected to drive the growth of the market in the coming years. The latest trends in the 2D Electronics market include the development of flexible and stretchable electronics, which are expected to revolutionize the way electronic devices are designed and produced. The increasing use of 2D materials in solar cells and other renewable energy technologies is another major trend in the market.

There are two main types of 2D electronics:

- Electronic
- Optoelectronic

Electronic 2D devices include field-effect transistors (FETs), which can be used for digital logic and analog circuits, and interconnects, which can be used for wiring of complex circuits. Optoelectronic 2D devices, such as photodetectors and light-emitting diodes (LEDs), can convert light into electricity or vice versa, and are useful for applications such as imaging and communication.

2D electronics refers to electronic devices that are made up of thin, atomically thin materials like graphene, molybdenum disulphide (MoS₂), and black phosphorus. These materials have unique electronic properties that make them useful in various applications. One of the applications of 2D electronics is biomolecular sensing, where these materials are used to create highly sensitive biosensors that can detect and identify biomolecules like proteins and DNA. Other applications include optical communications, solar cells, security displays, and more. In optical communications, 2D materials are used to create components like modulators, switches, and

detectors that can be integrated into optical circuitry. For solar cells, 2D materials are used to improve the efficiency of energy conversion. In security displays, 2D materials are used to create high-resolution screens that are almost indestructible.

Asia Pacific is expected to dominate the 2D Electronics market with a market share of approximately 45% in the forecast period. The growth is driven by the presence of major players in the region, increasing demand for consumer electronics, and growing adoption of advanced technologies. North America and Europe are also expected to hold significant market shares in the 2D Electronics market, with market shares of approximately 28% and 20%, respectively. The Middle East and Africa and South America are expected to have a comparatively smaller market share of approximately 4% and 3%, respectively. However, the market share percentage may vary based on factors such as economic conditions, government policies, and technological advancements.

The 2D electronics market is an emerging field that offers high-performance electronic products while providing key advantages over traditional electronics. The global 2D electronics market is expected to grow substantially in the forecast period. Several companies are operating in this market, including giants like Aledia, 2D Semiconductors, 2D Electronic and Automation, Graphene Laboratories, Haydale, Sanko Semiconductor, and Skeleton Technologies.

In terms of sales revenue, Aledia had a revenue of €10.9 M in 2020. 2D Semiconductors had a revenue of \$1.7M in 2020, and Skeleton Technologies achieved €17.5M in sales in the same year. Overall, the 2D electronics market is expected to grow significantly in the coming years, driven by technological advancements and increasing demand for high-performance electronic products.

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The Oscillator Market is expected to grow from USD 1.30 Billion in 2022 to USD 2.40 Billion by 2030, at a CAGR of 7.60% during the forecast period. The Oscillator market is a highly specialized market catering to the needs of various applications such as electronic circuits, mechanical systems, timekeeping devices, and test and measurement equipment. The global Oscillator market has seen tremendous growth due to the increasing demand for high-frequency communication systems and the adoption of IoT devices. The major factors driving revenue growth of the Oscillator market are an increasing demand for high-frequency communication systems, advancements in 5G technology, and a growing demand for precision timing solutions.

One of the latest trends observed in the Oscillator market is the adoption of Internet of Things (IoT) devices. The increasing implementation of IoT devices in various industries such as healthcare, automotive, and electronics has led to the demand for high-precision timing solutions. The demand for high-precision timing solutions is met by Oscillator devices that provide accurate and stable frequency signals.

The oscillator market is expected to experience significant growth in various regions around the world. North America, particularly the United States, is expected to remain a dominant market due to the growing demand for advanced technologies in various industries, including healthcare, automotive, and aerospace. In APAC, the market is expected to grow due to the increasing adoption of electronic devices and the growth of the semiconductor industry. Europe is also expected to experience growth due to the development of advanced communication technologies and increased use of oscillators in the automotive industry. Meanwhile, China is expected to remain a key market due to the growth of the electronics industry in the region. Overall, the global oscillator market is expected to grow at a significant pace in the coming years.

The global oscillator market is highly competitive and fragmented. Abracon LLC, EPSON, AVX Corp/Kyocera Corp, Cardinal Components Inc., CTS-Frequency Controls, Diodes Incorporated, Citizen Finedevice Co Ltd, ECS Inc, Connor-Winfield, Crystek Corporation, among others, are the leading companies operating in the market. These companies offer various types of oscillators such as quartz, surface acoustic wave (SAW), temperature-compensated (TCXO) and others.

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The Air Flow Sensors Market is expected to grow from USD 357.00 Million in 2022 to USD 695.83 Million by 2030, at a CAGR of 8.70% during the forecast period. The major factors driving revenue growth for the air flow sensors market include the increasing complexity of automotive systems, growing demand for air quality control, and a surge in demand for HVAC systems. The shift towards the use of environment-friendly air flow sensors is also expected to significantly boost market growth. Additionally, the increasing focus on healthcare and patient safety has resulted in the need for advanced air flow measurement devices for laboratory and hospital use, further driving market growth. In recent years, wireless air flow sensors have gained significant popularity, owing to their ability to provide real-time insights, enable remote monitoring and control, and help conserve energy. Furthermore, the market has witnessed a growing trend of integrating air flow sensors with IoT, which enables the collection and analysis of data in real-time, and facilitates predictive maintenance and cost optimization.

Asia-Pacific is expected to dominate the Air Flow Sensors market due to the presence of major automotive and industrial manufacturing hubs in countries like China, Japan, and India. The region is anticipated to occupy the largest market share of over 40 percent by the end of 2027. North America and Europe are also expected to witness significant growth in the Air Flow Sensors market owing to the increasing demand for electric and hybrid vehicles and the growing trend of automation in manufacturing industries. These regions are projected to hold a market share of around 25 percent and 20 percent respectively by the end of 2027. Furthermore, the report suggests that the Middle East and Africa and South America regions are anticipated to witness moderate growth in the Air Flow Sensors market owing to the increasing demand for passenger and commercial vehicles and the growth of the manufacturing sectors in these regions. These regions are expected to hold a market share of around 7 percent and 8 percent

respectively by the end of 2027.

The air flow sensors market is highly fragmented and competitive, with numerous companies operating in the industry. Some of the major companies that dominate the market include First Sensor AG, TE Connectivity Corporation, Sensirion AG Switzerland, Honeywell International Inc., Siemens AG, Denso Europe, Degree Controls Inc., Oscium, A Dechnia LLC., Delta OHM, Systec Controls, and others.

Sales revenue figures of a few of the above-listed companies are as follows:

- First Sensor AG - 148.49 million EUR (2020)
- TE Connectivity Corporation - 12.2 billion USD (2020)
- Sensirion AG Switzerland - 176.3 million CHF (2020)
- Honeywell International Inc. - 32.6 billion USD (2020)

Click here for more information: <https://www.reportprime.com/air-flow-sensors-r1118>

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