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Printed Electronics Market Research Report - Forecast 2032

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Description:

Global Printed Electronics Market Overview:

Printed Electronics Market Size was valued at USD 4.1 billion in 2022. The Printed Electronics market industry is projected to grow from USD 4.6 Billion in 2023 to USD 12.3 billion by 2032, exhibiting a compound annual growth rate (CAGR) of 13.0% during the forecast period (2023 - 2032). The technology's predicted growth is ascribed to its adaptability to various dynamic application domains. The Internet of Things (IoT) and consumer electronics are the key market drivers enhancing market growth.

Global Printed Electronics Market

Source: Secondary Research, Primary Research, MRFR Database and Analyst Review

Printed Electronics Market Trends

• Growing IoT technology to Drive the market growth

Market CAGR will rise due to the breadth of printed electronics applications expanding across the industry due to the growing IoT market share. Additionally, the increased demand for printed RFID devices and sophisticated OLED displays fosters the technology's adoption due to its low production costs, high efficiency, and low power consumption.

The topic of printed electronics has attracted a lot of research attention, intending to constantly improve on what is already possible and find new uses for it in various industries. Over the past few decades, increased R&D expenditures by numerous groups, organizations, and businesses have produced several benchmarking advances and improvements. Consumer electronics makers, such as IoT devices, smartphones, display devices, and other communication devices, are a large portion of the end-product manufacturers. Depending on the need, manufacturers incorporate technology into various items and provide it to distributors or merchants for commercial purposes. The major competitors in the market are concentrating on distribution alliances or mergers and acquisitions to get a foothold in the developing regional markets, such as Asia Pacific. For instance, CymMetrik, a Chinese business, and Thin Film Electronics ASA (U.S.) have inked a distribution deal. The collaboration intends to increase sales, especially in China, Taiwan, India, and other Asia Pacific countries. Due to the growing manufacture of consumer electronics on this continent, printed electronics technology is in great demand. The reasons driving the growth of the printed electronics market in the healthcare sector are the cheap cost of production, advancements in digital print technology, an increase in financing activities, and the healthcare sector's preference for innovative technologies.

Flexography, inkjet, gravure, and screen printing are commonly used printing processes for printed electronics, which offer photonic and printed electronics on various substrates. These methods print on materials, including paper, fabric, and polymers. This printing technique is frequently employed on wearable technology, sensors, and flexible screens.

A significant element anticipated to propel the printed electronics industry throughout the forecast period is the increase in demand for the design of mobile devices and large-screen displays in both developed and emerging nations. Rising investment in developing advanced printing materials has also stimulated the market. Some of the key players develop products that help the market grow. For instance, in February 2020, SEMI-FlexTech announced the launch of six new projects to accelerate the development of sensors and sensor systems for new uses in the healthcare, automotive, industrial, and defense sectors. Thus, driving the Printed Electronics market revenue.

Printed Electronics Market Segment Insights:

Printed Electronics Component Insights

The Printed Electronics market segmentation, based on components, includes dielectrics, contact materials, silicon materials, presentation, and semiconductors. The semiconductor segment dominated the market, accounting for 35% of market revenue (2.6 billion). Due to the growing use of printed electronics in photovoltaic devices, the semiconductor devices category also contributed significantly to revenue in 2021. It will continue to grow at a consistent CAGR from 2022 through 2030. The rising use of solar energy worldwide has given the market strong development potential. The target market's segment is one of its primary enablers.

Figure 1: Printed Electronics Market, by Component, 2022 & 2032 (USD billion)

Printed Electronics Market, by Component, 2022 & 2032

Source: Secondary Research, Primary Research, MRFR Database and Analyst Review

Printed Electronics Printing Technology Insights

The Printed Electronics market segmentation, based on printing electronics, includes substrates and inks. The inks category generated the most income in 2022. During the projected period, the category is anticipated to maintain its leadership position while expanding at the highest rate. The widespread use of printed electronics technology has allowed inks to be widely used in various applications across numerous industrial sectors. Therefore, throughout the forecast period, the category is expected to contribute considerably to the entire market's expansion.

Printed Electronics Application Insights

The Printed Electronics market segmentation, based on application, includes biometrics, guard and military, medical care, and auto. The medical care category generated the most income in 2022. The most recent advancements in printed electronics materials, including integrated nanoscale sensors, electronics, microfluidics, and advanced synthetics, have greatly benefited the healthcare industry. More stretchy, flexible, and conformal biosensors have also been developed for medical monitoring, diagnostics, and medication administration thanks to advances and significant consumer uptake.

Printed Electronics Regional Insights

By Region, the study provides market insights into North America, Europe, Asia-Pacific, and the Rest of the World. The Asia Pacific market area will dominate this market. The large market share concerns consumer electronics applications' growing use of printed electronics technology. The APAC region's market is expected to continue to hold the top spot while expanding at the quickest CAGR. This expansion can be ascribed to the area's fast-expanding electronics manufacturing industry.

Further, the major countries studied in the market report are The U.S., Canada, German, France, the UK, Italy, Spain, China, Japan, India, Australia, South Korea, and Brazil.

Figure 2: PRINTED ELECTRONICS MARKET SHARE BY REGION 2022 (%)

PRINTED ELECTRONICS MARKET SHARE BY REGION 2022

Source: Secondary Research, Primary Research, MRFR Database and Analyst Review

Europe Printed Electronics market accounts for the second-largest market share. Due to rising R&D expenditures and a growing number of industrial applications, including photovoltaic, lighting, and RFID devices, printed electronics technology is anticipated to take off in the European areas. Further, the German Printed Electronics market held the largest market share, and the UK Printed Electronics market was the fastest growing market in the European region.

The Asia-Pacific Printed Electronics Market is expected to grow at the fastest CAGR from 2023 to 2032. Numerous residents of the area struggle with ailments linked to a certain way of life, including diabetes, obesity, and heart disease. Moreover, China's Printed Electronics market held the largest market share, and the Indian Printed Electronics market was the fastest growing market in the Asia-Pacific region.

The application cases for printed electronics in the region's healthcare sector are developing due to the rising public and private investment in building the region's healthcare infrastructure. Additionally, the area quickly becomes the world's electronics industry's production center. Additionally, the fact that suppliers of printed electronics are expanding their investment to strengthen their presence in the area benefits the market under study.

Printed Electronics Key Market Players & Competitive Insights

Leading market players put much money into their research and development departments intending to extend their product line. The market leaders are concentrating on expanding their presence by progressing with market developments, new product releases, contract agreements, mergers and acquisitions, higher investments, and collaboration with other organizations. These are important market trends. Due to the reasonable pricing of the market leaders in the worldwide Printed Electronics industry sector, a wider range of customers may access their goods.

Increased dependence on lowering operational costs to boost profit margins is one of the main business strategies manufacturers use in the worldwide Printed Electronics industry. Printed Electronics industry has developed several items recently that provide them a competitive edge over their forerunners. Major players in the Printed Electronics market include SAMSUNG, Agfa-Gevaert, BASF, Thin Film Electronics, E Ink Holdings, Novacentrix, and Molex.

A worldwide industrial corporation headquartered in Samsung Town in Seoul, South Korea, is known as Samsung Group or just Samsung. It is the largest South Korean chaebol and consists of multiple connected enterprises, mostly unified under the Samsung brand. (business conglomerate). Samsung will have the eighth-highest worldwide brand value in 2020. In 1938, Lee Byung-Chul established Samsung as a commercial business. The group expanded into food processing, textiles, insurance, securities, and retail industries over the following three decades. Samsung joined the shipbuilding and construction sectors in the middle of the 1970s after first entering the electronics sector in the late 1960s. Samsung was divided into five corporate groups after Lee's passing in 1987: Samsung Group, Shinsegae Group, CJ Group, Hansol Group, and JoongAng Group.

The biggest chemical manufacturer in the world is a multinational chemical business based in Europe called BASF SE. In the German city of Ludwigshafen, it has its headquarters. The BASF Group has subsidiaries and joint ventures in more than 80 nations. It runs 390 additional manufacturing sites throughout Europe, Asia, Australia, the Americas, and Africa, in addition to six integrated production facilities. More than 190 nations have placed orders with BASF, serving various sectors. Despite its size and widespread presence, BASF hasn't drawn much attention from the general public since it stopped producing and marketing consumer electronics items under the BASF name in the 1990s. Over 54,000 of the company's 117,628 employees were based in Germany as of the end of 2019. BASF reported €59.3 billion in revenue and €4.5 billion in operating profits before exceptional items in 2019. The corporation spent €5.6 billion in Asia between 1990 and 2005, concentrating on properties close to Nanjing and Shanghai in China and Mangalore in India.

Key Companies in the Printed Electronics market include

- SAMSUNG
- Agfa-Gevaert
- BASF
- Thin Film Electronics
- E Ink Holdings
- Novacentrix
- Molex
- FM Systems
- Xerox (Palo Alto Research Center)
- Brightvolt
- Intrinsic Materials

Printed Electronics Industry Developments

February 2022: A Fortune 500 industrial business specializing in producing capital equipment has inked a client agreement with Ensurge Micropower ASA, a company that manufactures micro batteries. Per the contract, the business will provide solid-state micro-batteries appropriate for particular applications, including the Internet of Things (IoT) and medical devices.

April 2021: To resell its products with an emphasis on the North American and European markets, Ink Holdings Inc. has a contract with DATA MODUL, a provider of touch, embedded, and display monitors.

September 2021: Solar panel manufacture is a joint effort between the University of Texas at Dallas and the business Novacentrix, a leader in next-generation printed electronics. The University of Texas researchers demonstrated photonic curing that may be used to create thin coatings for flexible electronics.

Printed Electronics Market Segmentation:

Printed Electronics Component Outlook (USD Billion, 2019-2032)

- Dielectrics
- Contact materials
- Silicon materials
- Presentation
- Semiconductors

Printed Electronics Printing Technology Outlook (USD Billion, 2019-2032)

- Substrates
- Ink

Printed Electronics Application Outlook (USD Billion, 2019-2032)

- Biometrics
- Guard and Military
- Medical care
- Auto

Printed Electronics Regional Outlook (USD Billion, 2019-2032)

- North America
 - US
 - Canada
- Europe
 -

Germany

- France

- UK

- Italy

- Spain

- Rest of Europe

- Asia-Pacific

- China

- Japan

- India

- Australia

- South Korea

- Australia

- Rest of Asia-Pacific

- Rest of the World

- Middle East

- Africa

- Latin America

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