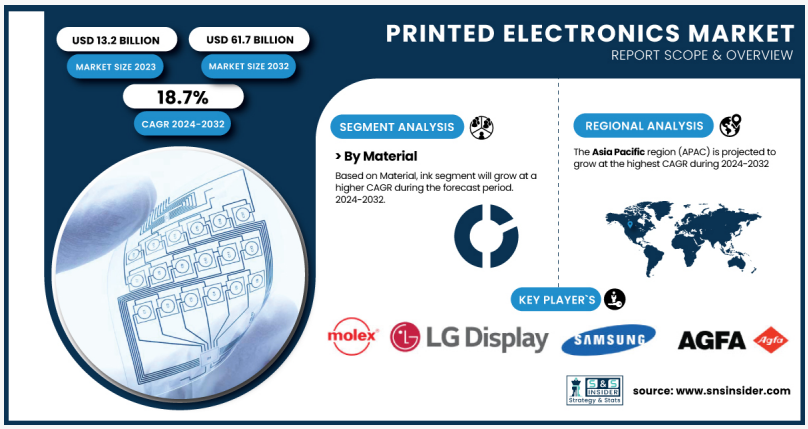
Printed Electronics Market to Exceed USD 61.7 billion by 2032, at 18.7% CAGR | Report by SNS Insider

The growth of the Printed Electronics market is driven by the demand for flexible, lightweight, and cost-effective devices.



Printed Electronics Market Size & Growth Report

AUSTIN, TX, UNITED STATES, February 5, 2025 /EINPresswire.com/ -- Market Size & Industry Insights

As Per the SNS Insider,"The Printed Electronics Market was valued at USD 13.2 billion in 2023 and is expected to grow to USD 61.7 billion by 2032, at a CAGR of 18.7% over the forecast period of 2024-2032."

Rising Demand for Flexible and Lightweight Electronics Drives Growth in Printed Electronics Market

There is increasing demand for flexible, lightweight, and inexpensive electronic devices, which is driving the growth of the printed electronics market. Printed electronics manufacture electronic circuitry on flexible substrates using established printing techniques such as screen, inkjet, and gravure printing. This allows the manufacture of low-weight and thin-layered offers, while also providing a high degree of customization in it, thus being embraced by various industries such as electronics, automotive, healthcare, and packaging. Wearable devices, flexible displays, and smart packaging are among the trends helping boost printed electronics, which offer cost-effective, thin, flexible manufacturing processes.

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SWOT Analysis of Key Players as follows:
- Samsung Electronics Co. Ltd. (South Korea)
- LG Display Co. Ltd. (South Korea)

- Molex LLC (US)
- Agfa-Gevaert Group (Belgium)
- Palo Alto Research Center Inc (PARC)
- DuPont de Nemours Inc. (US)
- Nissha Co. Ltd. (Japan)
- BASF (Germany)
- NovaCentrix (US)
- E Ink Holdings Inc. (Taiwan)

Sustainability and Energy Efficiency Fuel Growth of Printed Electronics Market with Renewable Solutions

The printed electronics market is also propelling with an increasing focus on sustainability & energy efficiency. This is important because preventing, or at least minimizing waste in production, helps to reduce the carbon footprint, making printed electronics a great viable alternative to conventional electronic manufacturing methods. Also, materials such as conductive inks and organic semiconductors have improved the performance and functionality of printed electronics, broadening the scope of applications. Market growth is also driven by the demand for renewable energy solutions such as solar cells and energy-efficient lighting.

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Inks and Screen-Printing Technologies Set to Drive Explosive Growth in Printed Electronics Market Through 2032

By Material Insights: In 2023, the inks segment held the largest printed electronics market share, and this segment is expected to grow with the fastest CAGR from 2024-2032. Demand for conductive inks, like silver and carbonic inks, for flexible, cheap electronics is propelling this growth. This fast-paced growth is propelled by ongoing research efforts in developing inventive ink formulations for various applications in industries such as wearables and displays.

By Printing Technology: The screen-printing technology segment accounted for the highest share of the market in 2023 and is also estimated to witness the fastest growth (the highest CAGR) from 2024 to 2032. The reason for the growth in this market is its inexpensive, simplicity, and scalability as a means of manufacturing printed electronics. As one of the main printing processes used in mass manufacturing of flexible and large-area electronics such as displays, sensors, and photovoltaic cells, screen printing is well-suited for such applications.

Asia Pacific Dominates Printed Electronics Market and Leads Rapid Growth from 2024 to 2032

In 2023, the printed electronics market is dominated by Asia Pacific, and from 2024 to 2032 it is expected to have the largest CAGR. The impressive growth is attributed to the increasing adoption of printed electronics across major industries such as consumer electronics,

automotive, healthcare, and packaging. Countries like China, Japan, and South Korea, have the advantage of having a strong manufacturing base, being technologically advanced, and having a larger consumer base that it can cater to. Cost-competitive manufacturing, strong supply chain, and also government programs supporting electronics innovation in the region. In addition, the region has a large electronics sector, which helps drive the development of printed electronics. Market expansion in Asia Pacific is also expected to gather momentum from a growing demand for the incorporation of these materials in wearable devices, flexible displays, and energy-efficient solutions such as solar cells. Moreover, the region is a center of the printed electronics industry, as well as having a strong research and development aspect influencing constant improvements of materials and intermediate steps, making the region continue to be an ideal target for further development.

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Recent Developments:

-In January 2024, Agfa and EFI announced a global strategic partnership to combine their advanced technologies in the wide-format inkjet printing sector.

-In June 2024, Teradata partnered with Google Cloud to offer enterprise-scale Trusted AI solutions, combining Teradata VantageCloud Lake with Google Cloud's Vertex AI and Gemini models.

-In October 2024, DuPont and Zhen Ding Technology Group signed a strategic cooperation agreement to advance high-end printed circuit board technology. The collaboration aims to enhance R&D, improve material performance, and support sustainable growth in the electronics industry.

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