

Printed Electronics Market Report by Material (Ink, Substrate), Technology (Inkjet, Screen, Gravure, Flexographic), Device (Display, Photovoltaic, Lighting, RFID, and Others), and Region 2024-2032

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Abstracts

The global printed electronics market size reached US\$ 72.7 Billion in 2023. Looking forward, IMARC Group expects the market to reach US\$ 237.2 Billion by 2032, exhibiting a growth rate (CAGR) of 13.6% during 2024-2032.

Printed electronics refer to the electronic devices developed on substrates, such as foil, paper, glass and fabric polymers, using carbon-based compound inks, inkjet printers and flexography, gravure and screen-printing technologies. Some of the commonly used printed electronics include wearable devices, flexible keyboards, electronic skin patches, biosensors, display units, Organic Light Emitting Diode (OLEDs) and photovoltaic cells. In comparison to the traditionally used electronics, printed variants are more environment-friendly, lightweight, flexible, cost-effective and have lower power requirements. As a result, they find extensive application across various industries, such as aerospace, automotive, healthcare and consumer electronics.

Global Printed Electronics Market Trends:

Significant growth in the electronic industry across the globe is one of the key factors creating a positive outlook for the market. With the increasing requirement for next-generation flexible products, there is a rising demand for energy-efficient, thin and sustainable consumer electronics. Moreover, the widespread adoption of smart and connected devices is providing a thrust to the market growth. There is a shifting consumer preference for printed electronics in wearable devices, smart packaging solutions, medical devices and smart apparels due to the favorable sensing, data

storage and transmission properties. Additionally, various innovations, such as the utilization of additive manufacturing and screen-printing technologies, are acting as other growth-inducing factors. They aid in producing fully electromechanical components with enhanced accuracy using ultraviolet (UV) curable, plastisol, water and solvent-based inks. In line with this, printed sensors and panels are also extensively used in the cockpits and navigation systems of aircraft and military vehicles, thereby favoring the market growth.

Key Market Segmentation:

IMARC Group provides an analysis of the key trends in each sub-segment of the global printed electronics market report, along with forecasts at the global, regional and country level from 2024-2032. Our report has categorized the market based on material, technology and device.

Breakup by Material:

Ink

Substrate

Breakup by Technology:

Inkjet

Screen

Gravure

Flexographic

Breakup by Device:

Display

Photovoltaic

Lighting

RFID

Others

Breakup by Region:

North America

United States

Canada

Asia-Pacific

China

Japan

India

South Korea

Australia

Indonesia

Others

Europe

Germany

France

United Kingdom

Italy

Spain

Russia

Others

Latin America

Brazil

Mexico

Others

Middle East and Africa

Competitive Landscape:

The competitive landscape of the industry has also been examined along with the profiles of the key players being Agfa-Gevaert N.V., BASF SE, DuPont de Nemours Inc., E Ink Holdings Inc., Molex LLC (Koch Industries), Nissha Co. Ltd., NovaCentrix, Optomec Inc., Palo Alto Research Center Incorporated (Xerox Corporation), Vorbeck Materials Corporation and Ynvisible Interactive Inc.

Key Questions Answered in This Report

1. What was the size of the global printed electronics market in 2023?
2. What is the expected growth rate of the global printed electronics market during 2024-2032?
3. What are the key factors driving the global printed electronics market?
4. What has been the impact of COVID-19 on the global printed electronics market?
5. What is the breakup of the global printed electronics market based on the material?

6. What is the breakup of the global printed electronics market based on the technology?
7. What is the breakup of the global printed electronics market based on device?
8. What are the key regions in the global printed electronics market?
9. Who are the key players/companies in the global printed electronics market?

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