

Flexible Electronics Market- Global Industry Size, Share, Trends, Opportunities, and Forecast 2018-2028

Segmented By Applications (Displays, Sensors, Thin-Film Photovoltaics, Batteries, and Others), By Circuit Structure (Single-Sided Flexible Circuit, Double-Sided Flexible Circuit, Multilayer Flexible Circuit, Sculptured Flexible Circuit and Others), By End Use Industry (Consumer Electronics, Healthcare, Military & Defense, Automotive, Others), By Region

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Report description:

Global Flexible Electronics Market is anticipated to grow during the forecast period. The growth of the Internet of Things (IoT), the acceptance of portable and smart electronics, and the increase in investments in the development of flexible electronics are the key drivers influencing the market for flexible electronics over the forecast period.

Flexible electronics is a technology for creating electronic devices by placing stretchable electronic circuits onto stretchable substrates or entirely encasing them in silicone or polyurethane. It is an emerging class of electronics that is expected to enable a range of new applications, including cyber skin for robotic devices, imparting a network of sensors on a fully conformable, stretchable cyber skin, implantable sponge-like electronics, and flesh-like devices with embedded electronic nervous systems.

Growth of Internet of Things (IoT)

The Internet of Things (IoT) has a broad vision of connecting every single object globally to form one network. Flexible electronic devices, including RFIDs, sensors, memory devices, displays and power sources, are considered to be the technological basis of the IoT. The development of flexible electronic devices has been extremely rapid in the last decade. For instance, to address the

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growing concerns behind sun exposure as well as to educate consumers, L'Oréal has designed a wearable patch that monitors UV exposure. Moreover, flexible electronics are becoming almost synonymous with many emerging applications in the IoT such as agriculture, health care, and structural health monitoring. Other types of flexible electronics devices are essential to the IoT, especially in wearable gadgets, such as fitness bands and smartwatches. Therefore, with the rising IoT, the demand for flexible electronics is likely to augment in the coming years.

Rising Demand for Consumer Devices

Flexible electronics are low-cost, durable, and widely used in cell phones, tablets, PCs, wearables, televisions, and other consumer devices. Flexible displays are used in such devices to save space while also reducing thickness and weight. The two primary types of displays used are flexible organic light-emitting diodes and flexible organic liquid crystal displays. Furthermore, the need for flexible electronics is growing in step with the demand for consumer electronics. Despite a drop in smartphone shipments due to the COVID-19 pandemic, the smartphone and wearable devices market is expected to recover quickly with such technology.

Continuous Technological Development

To continuously develop their products, several large companies in the sector are making significant investments in R & D. For instance, Samsung and Intel worked together to achieve 305 Gbps on their 5G SA core. The company anticipates that its highly adaptable and scalable design would enable the delivery of 5G services more quickly and affordably. A foldable gadget featuring a joint mechanism that makes use of moveable flaps to assist and protect the display from being scratched or damaged when folded was given a patent by Apple Inc. in 2020. Major corporations from nations like China and India are encouraging and challenging one another to take use of flexible technology through these advances. The sector for flexible electronics is likely to continue to expand technologically, opening up attractive potential for participants.

Market Segments

Global Flexible Electronics Market is segmented into applications, circuit structure, end use industry region, and competitive landscape. Based on applications, the market is segmented into displays, sensors, thin-film photovoltaics, batteries, and others. Based on circuit structure, the market is segmented into single-sided flexible circuit, double-sided flexible circuit, multilayer flexible circuit, sculptured flexible circuit and others. Based on end use industry, the market is segmented into consumer electronics, healthcare, military & defense, automotive, others.

Market Players

Major market players in the Global Flexible Electronics Market are E Ink Holdings Inc., Blue Spark Technologies, Samsung Electronics Co. Ltd, LG Electronics Inc., Enfucell Flexible Electronics Co. Ltd., Cymbet Corporation, AU Optronics Corp., Imprint Energy Inc., Palo Alto Research Center Incorporated, Solar Frontier.

Report Scope:

In this report, Global Flexible Electronics Market has been segmented into following categories, in addition to the industry trends which have also been detailed below:

- Flexible Electronics Market, By Applications:

- o Displays
- o Sensors
- o Thin-Film Photovoltaics
- o Batteries
- o Others

- Flexible Electronics Market, By Circuit Structure:

- o Single-Sided Flexible Circuit
- o Double-Sided Flexible Circuit
- o Multilayer Flexible Circuit
- o Sculptured Flexible Circuit
- o Others

- Flexible Electronics Market, By End Use Industry:

- o Consumer Electronics

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- o Healthcare

- o Military & Defense

- o Automotive

- o Others

- Flexible Electronics Market, By Region:

- o North America

- United States

- Canada

- Mexico

- o Asia pacific

- China

- India

- Japan

- South Korea

- Vietnam

- o Europe

- United Kingdom

- Germany

- France

- Netherlands

- Switzerland

- o Middle East & Africa

- Saudi Arabia

- South Africa

- UAE

- Egypt

- Israel

- o South America

- Brazil

- Argentina

- Chile

Competitive Landscape

Company Profiles: Detailed analysis of the major companies present in Global Flexible Electronics Market.

Available Customizations:

Global Flexible Electronics Market with the given market data, Tech Sci Research offers customizations according to a company's specific needs. The following customization options are available for the report:

Company Information

- Detailed analysis and profiling of additional market players (up to five).

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