

Europe Stretchable Electronics Market Segmented By Component (Electroactive Polymers (EAPs), Stretchable Conductors, Stretchable Batteries, Stretchable Circuits, Photovoltaics), By Application (Consumer Electronics, Healthcare, Textile, Automotive, Others), By Country, Competition Forecast and Opportunities, 2028

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Abstracts

During the projected period, the Europe Stretchable Electronics Market is expected to expand because the Internet of Things (IoT) is growing, smart electronics are getting more well-liked, and investments are increasing in stretchable electronics. These are the primary factors that are anticipated to fuel the market for stretchable electronics during the anticipated time.

The use of stretchable electronic circuits on stretchable substrates in a stretchable material, such as silicone or polyurethane, to construct electronic devices is known as stretchable electronics, also known as elastic circuits/electronics. It is a revolutionary type of electronics that is projected to open up a wide range of new applications, including sponge-like in-vivo implantable electronics and robotic devices with cyber skins that have a network of sensors and flesh-like devices with embedded electronic nervous systems.

Growth of the Internet of Things (IoT)

The Internet of Things (IoT) has a broad vision of connecting every single object in Europe to form one network. Stretchable electronic devices, including RFIDs, sensors, memory devices, displays, and power sources, are considered to be the technological

basis of the IoT. The development of stretchable electronic devices has been extremely rapid in the last decade. For instance, to address the growing concerns behind sun exposure as well as to educate consumers, L'Oréal has designed a wearable patch that monitors UV exposure. Moreover, stretchable electronics are becoming almost synonymous with many emerging applications in the IoT, such as agriculture, health care, and structural health monitoring. Other types of stretchable electronic devices are essential to the IoT, especially in wearable gadgets, such as fitness bands and smartwatches. Therefore, with the rising IoT, the demand for stretchable electronics is likely to increase in the coming years.

Rising Demand for Consumer Devices

Stretchable electronics are commonly utilized in mobile phones, tablets, PCs, wearables, televisions, and other consumer electronics because they are affordable, reliable, and flexible. Such devices use stretchable displays to conserve space while also thinning and lightening them. The two primary types of displays used are stretchable organic light-emitting diodes and flexible organic liquid crystal displays. Furthermore, the need for stretchable electronics is growing in step with the rising demand for consumer electronics. Despite a drop in smartphone shipments due to the COVID-19 epidemic, the smartphone and wearable devices market is expected to recover quickly with such technology.

Continuous Technological Development

Many major companies in Europe the industry is investing heavily in R&D to continuously develop their products. For instance, together with Intel, Samsung Electronics Co. Ltd. is working to transform a 5G standalone core into a new service-based architecture that will improve the internet of things, ultra-reliable low latency communications, and mobile broadband. The company anticipates that its highly adaptable and scalable design will enable the delivery of 5G services more quickly and affordably. A foldable gadget featuring a hinge mechanism that makes use of moveable flaps to assist in protecting the display from being scratched or damaged when folded was given a patent by Apple Inc. in 2020. By means of these developments, major companies in Europe are encouraged to harness the benefits of stretchable technology. The continuous technological development in the stretchable electronics industry is expected to create lucrative opportunities for players in the stretchable electronics market.

Market Segments

Europe Stretchable Electronics Market is segmented into components, application, and by country. Based on component, the market is segmented into electroactive polymers (EAP, stretchable conductors, stretchable batteries, stretchable circuits, and photovoltaics). Based on application, the market is segmented into Consumer Electronics, healthcare, textile, automotive, and others.

Market Players

Major market players in the Europe Stretchable Electronics Market are Tacterion GmbH, DuPont de Nemours International Sarl, Fine, Line Circuits Limited, WISE S.r.l., Bainisha CVBA, Express, Circuits Group, Interuniversitair Micro-Electronica Centrum, VZW, LEAP Technology ApS, Enfucell Flexible Electronics Co. Ltd., E Ink Holdings.

Recent Developments

For instance, a strategic partnership between Pragmatic Semiconductor and Smooth & Sharp Corporation (S&S), a provider of RFID manufacturing tools, was announced in November 2018. According to estimates, the company will gain a competitive edge as flexible integrated circuits from Pragmatic Semiconductor are more widely used (FlexICs).

The purpose of the Europe Framework Programs is to foster research across Europe by sponsoring technical advancement. The Europe Framework Program (EFP) addresses the development of Organic Light-Emitting Diode (OLED) technology, which has several applications in the field of flexible electronics, including lighting systems and displays.

Report Scope:

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

Europe Stretchable Electronics Market, by Component:

Electroactive Polymers (EAPs)

Stretchable Conductors

Stretchable Batteries

Stretchable Circuits

Photovoltaics

Europe Stretchable Electronics Market, by Application:

Consumer Electronics

Healthcare

Textile

Automotive

Others

Europe Stretchable Electronics Market, by Country:

Germany

Spain

Russia

Switzerland

Denmark

Sweden

Italy

United Kingdom

France

Belgium

Rest of Europe

Competitive Landscape

Company Profiles: Detailed analysis of the major companies present in Europe Stretchable Electronics Market.

Available Customizations:

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:

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