

Electronic Skin Market Report and Forecast 2025-2034

Market Report | 2025-07-14 | 178 pages | EMR Inc.

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Report description:

The global electronic skin market size reached a value of approximately USD 9.17 Billion in 2024. The market is further expected to grow at a CAGR of 19.50% between 2025 and 2034, reaching a value of USD 54.46 Billion by 2034

Key Trends in the Market

Electronic skin refers to self-healing, stretchable, and flexible electronics that mimic the functioning of animal or human skin. These materials have sensing abilities and are able to reproduce the capabilities of human skin and respond to environmental factors such as pressure and heat.

- The key electronic skin market trends include technological advancements such as development of materials with advanced stretchability and flexibility. Development of remarkably thin encapsulation layers and substrates allow the electronic skin to conform to the surface layer of the body of the user.

- Integration of electronic skin with sensors is another crucial trend propelling the growth of the market. The sensors aid in detection of external stimuli such as temperature, pressure, and humidity, and allow real-time collection of data, enhancing the applications of electronic skin.

Global Electronic Skin Market Segmentation

The EMR's report titled "Electronic Skin Market Report and Forecast 2025-2034" offers a detailed analysis of the market based on the following segments:

Market Breakup by Product

- Electronic Skin Suits

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- Electronic Patches

Market Breakup by Component

- Stretchable Circuits
- Photovoltaic Systems
- Stretchable Conductors
- Electroactive Polymers

Market Breakup by Sensors

- Tactile Sensors
- Chemical Sensors
- Electrophysiological Sensors
- Others

Market Breakup by Application

- Health Monitoring Systems
- Drug Delivery Systems
- Others

Market Breakup by Region

- North America
- Europe
- Asia Pacific
- Latin America
- Middle East and Africa

Global Electronic Skin Market Share by Product

Electronic patches are anticipated to account for a major share of the market for electronic skin by product, over the forecast period. This is due to the wide range of applications supported by them, including drug and cosmetic delivery, temperature sensing, motion and position sensing, smart wound care, vital signs monitoring, and newborn monitoring, among others. Additionally, the reliability and convenience offered by electronic skin patches aid in remote monitoring of outpatient and inpatient cases, increasing their demand further.

Global Electronic Skin Market Share by Region

The North America region is projected to witness significant growth in the market for electronic skin in the upcoming years. This growth can be attributed to the presence of various key players in the region along with increasing research and development activities in the healthcare industry and by research institutions. Furthermore, increasing investments to enhance the functionality of electronic skin, adoption of emerging technologies, and growing emphasis on innovation are propelling the electronic skin market growth in North America.

Competitive Landscape

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The comprehensive EMR report provides an in-depth assessment of the market based on the Porter's five forces model along with giving a SWOT analysis. The report gives a detailed analysis of the following key players in the global electronic skin global market, covering their competitive landscape and latest developments like mergers, acquisitions, investments, and expansion plans.

Xsensio

Xsensio is a digital health company that was founded in 2014 and is headquartered in Vaud, Switzerland. This company is known for designing next generation variables and specialise in preventive health, nanotechnology, and digital health.

VivaLNK, Inc.

VivaLNK, Inc. was established in 2014 and is based in California in the United States. It is a biometric data platform with data analytics and advanced medical wearables that is accelerating the implementation of remote patient monitoring.

Holst Centre

Holst Centre was founded in 2005 and is headquartered in Eindhoven in the Netherlands. This company is known for specialising in wireless sensor technology, wearable health solutions, flexible electronics, and intuitive Internet of Things solutions, among others.

Other market players include Xenoma Inc., Quad Industries, GENTAG, Inc., and iRhythm Technologies, Inc., among others.

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