

# Electronic Skin Market: Global Industry Trends, Share, Size, Growth, Opportunity and Forecast 2023-2028

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## Abstracts

### Market Overview:

The global electronic skin market size reached US\$ 7.3 Billion in 2022. Looking forward, IMARC Group expects the market to reach US\$ 20.8 Billion by 2028, exhibiting a growth rate (CAGR) of 19.2% during 2023-2028.

Electronic skin, or e-skin, is a flexible, self-healing and wearable product consisting of a stretchable network of sensors and electronics to replicate the functioning of human or animal skin. It senses heat, pressure and temperature through chemical, tactile and electrophysiological sensors, actuators, processors and communication units to respond to the ecological stimuli. These patches aid in monitoring the vital signs of the body with minimal or no discomfort to the user. They are also connected with mobile operating systems, which are utilized in health surveillance devices, such as fitness bands and watches. As a result, electronic skin finds extensive application for humanoids, artificial prosthetics, biomedical instrumentation and cyber-physical systems.

The widespread adoption of electronic wearable devices, robotics, and prosthetics among the masses is one of the key factors driving the growth of the market. Furthermore, significant improvements in the healthcare infrastructure, especially in the developing economies, are providing a thrust to the market growth. Electronic skin is widely used for real-time and continuous monitoring of body temperature, tissue pressure, electrolyte balance, disease-related biomarkers and body motion for on-body health and physiological check-ups. Additionally, various technological advancements, such as the development of 3D printed and artificial intelligence (AI)-integrated lightning and sweating electronic skins, are acting as other growth-inducing factors. Product manufacturers are also emphasizing on using green materials while developing

electronic skins to minimize the carbon emissions. Other factors, including rising expenditure capacities of the consumers, along with extensive research and development (R&D) activities in the field of artificial skin generation, are anticipated to drive the market further.

#### Key Market Segmentation:

IMARC Group provides an analysis of the key trends in each sub-segment of the global electronic skin market report, along with forecasts at the global, regional and country level from 2023-2028. Our report has categorized the market based on product, component, sensor and application.

#### Breakup by Product:

Electronic Skinsuits

Electronic Patches

#### Breakup by Component:

Stretchable Circuits

Photovoltaics Systems

Stretchable Conductors

Electroactive Polymers

#### Breakup by Sensor:

Tactile Sensors

Chemical Sensors

Electrophysiological Sensors

Others

#### Breakup by Application:

Health Monitoring Systems

Drug Delivery Systems

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 Bloomlife, GENTAG Inc, Holst Center, iRhythm Technologies Inc, MC10, Quad Industries, Rotex Global LLC (Hillenbrand Inc.), VivaLnk Inc, Xenoma Inc and Xsensio.

Key Questions Answered in This Report:

How has the global electronic skin market performed so far and how will it perform in the coming years?

What has been the impact of COVID-19 on the global electronic skin market?

What are the key regional markets?

What is the breakup of the market based on the product?

What is the breakup of the market based on the component?

What is the breakup of the market based on the sensor?

What is the breakup of the market based on the application?

What are the various stages in the value chain of the industry?

What are the key driving factors and challenges in the industry?

What is the structure of the global electronic skin market and who are the key players?

What is the degree of competition in the industry?

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