

Electronic Skin Market Report by Product (Electronic Skinsuits, Electronic Patches), Component (Stretchable Circuits, Photovoltaics Systems, Stretchable Conductors, Electroactive Polymers), Sensor (Tactile Sensors, Chemical Sensors, Electrophysiological Sensors, and Others), Application (Health Monitoring Systems, Drug Delivery Systems, and Others), and Region 2024-2032

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Abstracts

The global electronic skin market size reached US\$ 8.7 Billion in 2023. Looking forward, IMARC Group expects the market to reach US\$ 36.7 Billion by 2032, exhibiting a growth rate (CAGR) of 16.8% during 2024-2032.

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 2024-2032. 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?

Contents

1 PREFACE

2 SCOPE AND METHODOLOGY

- 2.1 Objectives of the Study
- 2.2 Stakeholders
- 2.3 Data Sources
 - 2.3.1 Primary Sources
 - 2.3.2 Secondary Sources
- 2.4 Market Estimation
 - 2.4.1 Bottom-Up Approach
 - 2.4.2 Top-Down Approach
- 2.5 Forecasting Methodology

3 EXECUTIVE SUMMARY

4 INTRODUCTION

- 4.1 Overview
- 4.2 Key Industry Trends

5 GLOBAL ELECTRONIC SKIN MARKET

- 5.1 Market Overview
- 5.2 Market Performance
- 5.3 Impact of COVID-19
- 5.4 Market Forecast

6 MARKET BREAKUP BY PRODUCT

- 6.1 Electronic Skinsuits
 - 6.1.1 Market Trends
 - 6.1.2 Market Forecast
- 6.2 Electronic Patches
 - 6.2.1 Market Trends
 - 6.2.2 Market Forecast

7 MARKET BREAKUP BY COMPONENT

- 7.1 Stretchable Circuits
 - 7.1.1 Market Trends
 - 7.1.2 Market Forecast
- 7.2 Photovoltaics Systems
 - 7.2.1 Market Trends
 - 7.2.2 Market Forecast
- 7.3 Stretchable Conductors
 - 7.3.1 Market Trends
 - 7.3.2 Market Forecast
- 7.4 Electroactive Polymers
 - 7.4.1 Market Trends
 - 7.4.2 Market Forecast

8 MARKET BREAKUP BY SENSOR

- 8.1 Tactile Sensors
 - 8.1.1 Market Trends
 - 8.1.2 Market Forecast
- 8.2 Chemical Sensors
 - 8.2.1 Market Trends
 - 8.2.2 Market Forecast
- 8.3 Electrophysiological Sensors
 - 8.3.1 Market Trends
 - 8.3.2 Market Forecast
- 8.4 Others
 - 8.4.1 Market Trends
 - 8.4.2 Market Forecast

9 MARKET BREAKUP BY APPLICATION

- 9.1 Health Monitoring Systems
 - 9.1.1 Market Trends
 - 9.1.2 Market Forecast
- 9.2 Drug Delivery Systems
 - 9.2.1 Market Trends
 - 9.2.2 Market Forecast
- 9.3 Others

9.3.1 Market Trends

9.3.2 Market Forecast

10 MARKET BREAKUP BY REGION

10.1 North America

10.1.1 United States

10.1.1.1 Market Trends

10.1.1.2 Market Forecast

10.1.2 Canada

10.1.2.1 Market Trends

10.1.2.2 Market Forecast

10.2 Asia-Pacific

10.2.1 China

10.2.1.1 Market Trends

10.2.1.2 Market Forecast

10.2.2 Japan

10.2.2.1 Market Trends

10.2.2.2 Market Forecast

10.2.3 India

10.2.3.1 Market Trends

10.2.3.2 Market Forecast

10.2.4 South Korea

10.2.4.1 Market Trends

10.2.4.2 Market Forecast

10.2.5 Australia

10.2.5.1 Market Trends

10.2.5.2 Market Forecast

10.2.6 Indonesia

10.2.6.1 Market Trends

10.2.6.2 Market Forecast

10.2.7 Others

10.2.7.1 Market Trends

10.2.7.2 Market Forecast

10.3 Europe

10.3.1 Germany

10.3.1.1 Market Trends

10.3.1.2 Market Forecast

10.3.2 France

- 10.3.2.1 Market Trends
- 10.3.2.2 Market Forecast
- 10.3.3 United Kingdom
 - 10.3.3.1 Market Trends
 - 10.3.3.2 Market Forecast
- 10.3.4 Italy
 - 10.3.4.1 Market Trends
 - 10.3.4.2 Market Forecast
- 10.3.5 Spain
 - 10.3.5.1 Market Trends
 - 10.3.5.2 Market Forecast
- 10.3.6 Russia
 - 10.3.6.1 Market Trends
 - 10.3.6.2 Market Forecast
- 10.3.7 Others
 - 10.3.7.1 Market Trends
 - 10.3.7.2 Market Forecast
- 10.4 Latin America
 - 10.4.1 Brazil
 - 10.4.1.1 Market Trends
 - 10.4.1.2 Market Forecast
 - 10.4.2 Mexico
 - 10.4.2.1 Market Trends
 - 10.4.2.2 Market Forecast
 - 10.4.3 Others
 - 10.4.3.1 Market Trends
 - 10.4.3.2 Market Forecast
- 10.5 Middle East and Africa
 - 10.5.1 Market Trends
 - 10.5.2 Market Breakup by Country
 - 10.5.3 Market Forecast

11 SWOT ANALYSIS

- 11.1 Overview
- 11.2 Strengths
- 11.3 Weaknesses
- 11.4 Opportunities
- 11.5 Threats

12 VALUE CHAIN ANALYSIS

13 PORTERS FIVE FORCES ANALYSIS

- 13.1 Overview
- 13.2 Bargaining Power of Buyers
- 13.3 Bargaining Power of Suppliers
- 13.4 Degree of Competition
- 13.5 Threat of New Entrants
- 13.6 Threat of Substitutes

14 PRICE ANALYSIS

15 COMPETITIVE LANDSCAPE

- 15.1 Market Structure
- 15.2 Key Players
- 15.3 Profiles of Key Players
 - 15.3.1 Bloomlife
 - 15.3.1.1 Company Overview
 - 15.3.1.2 Product Portfolio
 - 15.3.2 GENTAG Inc
 - 15.3.2.1 Company Overview
 - 15.3.2.2 Product Portfolio
 - 15.3.3 Holst Center
 - 15.3.3.1 Company Overview
 - 15.3.3.2 Product Portfolio
 - 15.3.4 iRhythm Technologies Inc
 - 15.3.4.1 Company Overview
 - 15.3.4.2 Product Portfolio
 - 15.3.4.3 Financials
 - 15.3.4.4 SWOT Analysis
 - 15.3.5 MC10
 - 15.3.5.1 Company Overview
 - 15.3.5.2 Product Portfolio
 - 15.3.6 Quad Industries
 - 15.3.6.1 Company Overview
 - 15.3.6.2 Product Portfolio

15.3.7 Rotex Global LLC (Hillenbrand Inc.)

15.3.7.1 Company Overview

15.3.7.2 Product Portfolio

15.3.8 VivaLnk Inc

15.3.8.1 Company Overview

15.3.8.2 Product Portfolio

15.3.9 Xenoma Inc

15.3.9.1 Company Overview

15.3.9.2 Product Portfolio

15.3.10 Xsensio

15.3.10.1 Company Overview

15.3.10.2 Product Portfolio

List Of Tables

LIST OF TABLES

Table 1: Global: Electronic Skin Market: Key Industry Highlights, 2023 and 2032

Table 2: Global: Electronic Skin Market Forecast: Breakup by Product (in Million US\$), 2024-2032

Table 3: Global: Electronic Skin Market Forecast: Breakup by Component (in Million US\$), 2024-2032

Table 4: Global: Electronic Skin Market Forecast: Breakup by Sensor (in Million US\$), 2024-2032

Table 5: Global: Electronic Skin Market Forecast: Breakup by Application (in Million US\$), 2024-2032

Table 6: Global: Electronic Skin Market Forecast: Breakup by Region (in Million US\$), 2024-2032

Table 7: Global: Electronic Skin Market: Competitive Structure

Table 8: Global: Electronic Skin Market: Key Players

List Of Figures

LIST OF FIGURES

Figure 1: Global: Electronic Skin Market: Major Drivers and Challenges

Figure 2: Global: Electronic Skin Market: Sales Value (in Billion US\$), 2018-2023

Figure 3: Global: Electronic Skin Market Forecast: Sales Value (in Billion US\$), 2024-2032

Figure 4: Global: Electronic Skin Market: Breakup by Product (in %), 2023

Figure 5: Global: Electronic Skin Market: Breakup by Component (in %), 2023

Figure 6: Global: Electronic Skin Market: Breakup by Sensor (in %), 2023

Figure 7: Global: Electronic Skin Market: Breakup by Application (in %), 2023

Figure 8: Global: Electronic Skin Market: Breakup by Region (in %), 2023

Figure 9: Global: Electronic Skin (Electronic Skinsuits) Market: Sales Value (in Million US\$), 2018 & 2023

Figure 10: Global: Electronic Skin (Electronic Skinsuits) Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 11: Global: Electronic Skin (Electronic Patches) Market: Sales Value (in Million US\$), 2018 & 2023

Figure 12: Global: Electronic Skin (Electronic Patches) Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 13: Global: Electronic Skin (Stretchable Circuits) Market: Sales Value (in Million US\$), 2018 & 2023

Figure 14: Global: Electronic Skin (Stretchable Circuits) Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 15: Global: Electronic Skin (Photovoltaics Systems) Market: Sales Value (in Million US\$), 2018 & 2023

Figure 16: Global: Electronic Skin (Photovoltaics Systems) Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 17: Global: Electronic Skin (Stretchable Conductors) Market: Sales Value (in Million US\$), 2018 & 2023

Figure 18: Global: Electronic Skin (Stretchable Conductors) Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 19: Global: Electronic Skin (Electroactive Polymers) Market: Sales Value (in Million US\$), 2018 & 2023

Figure 20: Global: Electronic Skin (Electroactive Polymers) Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 21: Global: Electronic Skin (Tactile Sensors) Market: Sales Value (in Million US\$), 2018 & 2023

Figure 22: Global: Electronic Skin (Tactile Sensors) Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 23: Global: Electronic Skin (Chemical Sensors) Market: Sales Value (in Million US\$), 2018 & 2023

Figure 24: Global: Electronic Skin (Chemical Sensors) Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 25: Global: Electronic Skin (Electrophysiological Sensors) Market: Sales Value (in Million US\$), 2018 & 2023

Figure 26: Global: Electronic Skin (Electrophysiological Sensors) Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 27: Global: Electronic Skin (Other Sensors) Market: Sales Value (in Million US\$), 2018 & 2023

Figure 28: Global: Electronic Skin (Other Sensors) Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 29: Global: Electronic Skin (Health Monitoring Systems) Market: Sales Value (in Million US\$), 2018 & 2023

Figure 30: Global: Electronic Skin (Health Monitoring Systems) Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 31: Global: Electronic Skin (Drug Delivery Systems) Market: Sales Value (in Million US\$), 2018 & 2023

Figure 32: Global: Electronic Skin (Drug Delivery Systems) Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 33: Global: Electronic Skin (Other Applications) Market: Sales Value (in Million US\$), 2018 & 2023

Figure 34: Global: Electronic Skin (Other Applications) Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 35: North America: Electronic Skin Market: Sales Value (in Million US\$), 2018 & 2023

Figure 36: North America: Electronic Skin Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 37: United States: Electronic Skin Market: Sales Value (in Million US\$), 2018 & 2023

Figure 38: United States: Electronic Skin Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 39: Canada: Electronic Skin Market: Sales Value (in Million US\$), 2018 & 2023

Figure 40: Canada: Electronic Skin Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 41: Asia-Pacific: Electronic Skin Market: Sales Value (in Million US\$), 2018 & 2023

Figure 42: Asia-Pacific: Electronic Skin Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 43: China: Electronic Skin Market: Sales Value (in Million US\$), 2018 & 2023

Figure 44: China: Electronic Skin Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 45: Japan: Electronic Skin Market: Sales Value (in Million US\$), 2018 & 2023

Figure 46: Japan: Electronic Skin Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 47: India: Electronic Skin Market: Sales Value (in Million US\$), 2018 & 2023

Figure 48: India: Electronic Skin Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 49: South Korea: Electronic Skin Market: Sales Value (in Million US\$), 2018 & 2023

Figure 50: South Korea: Electronic Skin Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 51: Australia: Electronic Skin Market: Sales Value (in Million US\$), 2018 & 2023

Figure 52: Australia: Electronic Skin Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 53: Indonesia: Electronic Skin Market: Sales Value (in Million US\$), 2018 & 2023

Figure 54: Indonesia: Electronic Skin Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 55: Others: Electronic Skin Market: Sales Value (in Million US\$), 2018 & 2023

Figure 56: Others: Electronic Skin Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 57: Europe: Electronic Skin Market: Sales Value (in Million US\$), 2018 & 2023

Figure 58: Europe: Electronic Skin Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 59: Germany: Electronic Skin Market: Sales Value (in Million US\$), 2018 & 2023

Figure 60: Germany: Electronic Skin Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 61: France: Electronic Skin Market: Sales Value (in Million US\$), 2018 & 2023

Figure 62: France: Electronic Skin Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 63: United Kingdom: Electronic Skin Market: Sales Value (in Million US\$), 2018 & 2023

Figure 64: United Kingdom: Electronic Skin Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 65: Italy: Electronic Skin Market: Sales Value (in Million US\$), 2018 & 2023

Figure 66: Italy: Electronic Skin Market Forecast: Sales Value (in Million US\$),

2024-2032

Figure 67: Spain: Electronic Skin Market: Sales Value (in Million US\$), 2018 & 2023

Figure 68: Spain: Electronic Skin Market Forecast: Sales Value (in Million US\$),
2024-2032

Figure 69: Russia: Electronic Skin Market: Sales Value (in Million US\$), 2018 & 2023

Figure 70: Russia: Electronic Skin Market Forecast: Sales Value (in Million US\$),
2024-2032

Figure 71: Others: Electronic Skin Market: Sales Value (in Million US\$), 2018 & 2023

Figure 72: Others: Electronic Skin Market Forecast: Sales Value (in Million US\$),
2024-2032

Figure 73: Latin America: Electronic Skin Market: Sales Value (in Million US\$), 2018 &
2023

Figure 74: Latin America: Electronic Skin Market Forecast: Sales Value (in Million US\$),
2024-2032

Figure 75: Brazil: Electronic Skin Market: Sales Value (in Million US\$), 2018 & 2023

Figure 76: Brazil: Electronic Skin Market Forecast: Sales Value (in Million US\$),
2024-2032

Figure 77: Mexico: Electronic Skin Market: Sales Value (in Million US\$), 2018 & 2023

Figure 78: Mexico: Electronic Skin Market Forecast: Sales Value (in Million US\$),
2024-2032

Figure 79: Others: Electronic Skin Market: Sales Value (in Million US\$), 2018 & 2023

Figure 80: Others: Electronic Skin Market Forecast: Sales Value (in Million US\$),
2024-2032

Figure 81: Middle East and Africa: Electronic Skin Market: Sales Value (in Million US\$),
2018 & 2023

Figure 82: Middle East and Africa: Electronic Skin Market: Breakup by Country (in %),
2023

Figure 83: Middle East and Africa: Electronic Skin Market Forecast: Sales Value (in
Million US\$), 2024-2032

Figure 84: Global: Electronic Skin Industry: SWOT Analysis

Figure 85: Global: Electronic Skin Industry: Value Chain Analysis

Figure 86: Global: Electronic Skin Industry: Porter's Five Forces Analysis

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