

Report Information

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Fingerprint Sensor Market Research Report - Forecast till 2030

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Description:

Global Fingerprint Sensors Market Overview

The Fingerprint Sensors Market Size was valued at USD 2.92 Billion in 2022. The Fingerprint Sensors industry is projected to grow from USD 4.07 Billion in 2023 to USD 14.47 Billion by 2030, exhibiting a compound annual growth rate (CAGR) of 13.27% during the forecast period (2023 - 2030). Fingerprint sensors are biometric devices used to capture and analyze the unique ridge patterns on the surface of an individual's finger. These sensors can be used to authenticate a person's identity, allowing access to secure systems or data, and they are commonly found in smartphones, laptops, and other electronic devices. There are several different types of fingerprint sensors, including optical sensors, capacitive sensors, and ultrasound sensors. Each type of sensor has its strengths and weaknesses, and the type of sensor used will depend on the specific requirements of the application.

Fingerprint Sensors Market Overview

Source: Secondary Research, Primary Research, MRFR Database, and Analyst Review

Fingerprint Sensors Market Trends

- The increasing penetration of connected technology and IoT

With the growing trend toward connected technology and the Internet of Things (IoT), there has been an increase in the demand for secure and convenient authentication methods. This has led to a growing market for fingerprint sensors, which provide a high level of security and ease of use for users. As more devices become connected and the amount of sensitive personal data stored on these devices continues to grow, there is a growing need for secure authentication methods that can protect this data from unauthorized access. Fingerprint sensors meet this demand, offering a convenient and secure way to verify a user's identity and protect sensitive information. In addition, the increasing popularity of mobile devices, such as smartphones and tablets, has also contributed to the growth of the fingerprint sensor market. These devices are commonly used to store personal and sensitive information, and many now come equipped with fingerprint sensors as a convenient and secure way to authenticate users. Overall, the increasing penetration of connected technology and IoT, combined with the growing demand for secure and convenient authentication methods, is expected to drive continued growth in the fingerprint sensors market.

Fingerprint Sensors Market Segment Insights

Fingerprint Sensors Type Insights

The market segmentation, based on Type, includes Area & Touch Sensor, and Swipe Sensor. The Area & Touch Sensor segment holds the majority share in 2022 of the market. In addition to being smaller and more affordable, touch sensors are also getting easier to use. These sensors are preferred by OEMs over swipe sensors, particularly in mobile devices that need smaller sensors to produce more compact goods that are desired by market end consumers.

Fingerprint Sensors Technology Insights

Based on Technology, the market segmentation includes Capacitive, Optical, Thermal, and Others. The Optical segment is estimated to account for the largest share of the market. In terms of technology, optical sensors are replacing capacitive touchscreen sensors in the majority of devices while ultrasonic fingerprint sensors are being used in luxury smartphones. Due to the rising need for sensor integration in displays, capacitive sensors have been replaced.

Fingerprint Sensors Application Insights

Based on Application, the market segmentation includes Consumer Electronics, Government & Law Enforcement, Military & Defense, BFSI, Smart Homes, Healthcare, Aerospace, and Commercial. The Government & Law Enforcement segment dominated the market in 2022. Governments use fingerprint sensors all over the world in many different areas, such as health care, border control, defense, employee screening, and security. Government agencies also use biometrics and fingerprint sensors to verify and identify people, which is why the said segmentation has its dominance over the market.

Figure 2: Fingerprint Sensors Market, by Application, 2022 & 2030 (USD Billion)

Fingerprint Sensors Market, by Application, 2022 & 2030

Source: Secondary Research, Primary Research, MRFR Database, and Analyst Review

Fingerprint Sensors Regional Insights

By region, the study provides market insights into North America, Europe, Asia-Pacific, and the Rest of the World. The largest market share in the fingerprint sensor market all across the globe is held by the Asia-Pacific region. The second-largest market share in the fingerprint sensor market all across the globe is held by the North American region owing to the increasing penetration of tablets and smartphones coupled with early technology adopters driving the market demand in this region. Also, an increase in per capita income is another contributing factor. The third-largest market share in the fingerprint market all across the globe is held by the European region as it witnesses rapid growth during the review period. Moreover, increasing demand for smart grids and well-established technology infrastructure drives the market demand.

Further, the major countries studied in the market report are The U.S., Canada, Germany, France, the UK, Italy, Spain, China, Japan, India, Australia, South Korea, and Brazil.

Figure 3: FINGERPRINT SENSORS MARKET SHARE BY REGION 2022 (%)

FINGERPRINT SENSORS MARKET SHARE BY REGION 2022

Source: Secondary Research, Primary Research, MRFR Database, and Analyst Review

Fingerprint Sensors Key Market Players & Competitive Insights

The major market players are investing a lot of money in R&D to expand their product lines, which will spur further market growth. With significant market development such as new product releases, increased investments, and collaboration with other organizations, market participants are also undertaking various strategic activities to expand their presence. To grow and thrive in a market climate that is becoming more competitive and growing, competitors in the Fingerprint Sensors industry must offer affordable products.

Manufacturing locally to cut operating costs is one of the main business tactics manufacturers use in the Fingerprint Sensors industry to benefit customers and expand the market sector. Major market players, including Apple Inc, Thales Group, HID Corporation, NEC Corporation, and others, are attempting to increase market demand by funding R&D initiatives.

Thales offers technological solutions to clients in the aerospace, military, and security industries. Aerospace, Defense and Security, and Digital Identity and Security make up its three business sectors. The Aerospace business unit develops satellites for communication and planetary observation, as well as commercial flight avionics and related solutions for electrical systems, passenger experience, training, and simulation. The Digital Identity and Security section offers user and device authentication, cloud protection, software licensing management, identity and biometric solutions, banking and payment systems, IoT and data analytics products, and identity and biometric solutions.

NEC Corporation is a corporation that integrates information technology, network solutions, and electronics. It provides IT services and solutions such as big data analytics, biometric authentication, cloud, display, digital signage, original equipment manufacturer (OEM) services, safety, connectivity, smart energy, and so on. The company also sells computers, data storage, embedded systems, software, and unified communications. NEC services the aerospace, aviation, broadcasting, agriculture, finance, government, healthcare, logistics, hospitality, manufacturing, telecommunications, retail, and transportation industries.

Key Companies in the Fingerprint Sensors market include

- IDEX Biometrics
- Shenzhen Goodix Technology Co Ltd
- Fingerprint Cards
- Synaptics Incorporated
- Qualcomm Technologies Inc
- Apple Inc

- Thales Group
- HID Corporation
- IDEMIA
- NEC Corporation

Fingerprint Sensors Industry Development

May 2022:Thales signed an agreement with Sone Investment Management and acquired S21sec and excelling to reinforce its cybersecurity.

May 2022:IDEMIA collaborated with Telefonica Espana to improve the security of the 5G Sim technology to secure their customer's communications.

May 2022: Apple Inc. introduced a new and advanced professional training suite for professionals to support the growing IT workforce.

March 2022:Synaptics Incorporated launched the katana Edge AI kit to accelerate the growth and development of the AI vision and Sensor fusion applications for IoT.

Fingerprint Sensors Market Segmentation

Fingerprint Sensors Type Outlook

- Area & Touch Sensor
- Swipe Sensor

Fingerprint Sensors Technology Outlook

- Capacitive
- Optical
- Thermal
- Others

Fingerprint Sensors Application Outlook

- Consumer Electronics
- Government & Law Enforcement
- Military & Defense
- BFSI
- Smart Homes
- Healthcare
- Aerospace
- Commercial

Fingerprint Sensors Regional Outlook

- North America
 - US
 - Canada

-

Europe

- Germany
- France
- UK
- Italy
- Spain
- Rest of Europe

- Asia-Pacific

- China
- Japan
- India
- Australia
- South Korea
- Australia
- Rest of Asia-Pacific

- Rest of the World

- Middle East
- Africa
- Latin America

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FIGURE 44 SHENZHEN GOODIX TECHNOLOGY CO., LTD.: SWOT ANALYSIS
FIGURE 45 IDEX BIOMETRICS ASA: FINANCIAL OVERVIEW SNAPSHOT
FIGURE 46 IDEX BIOMETRICS ASA: SWOT ANALYSIS