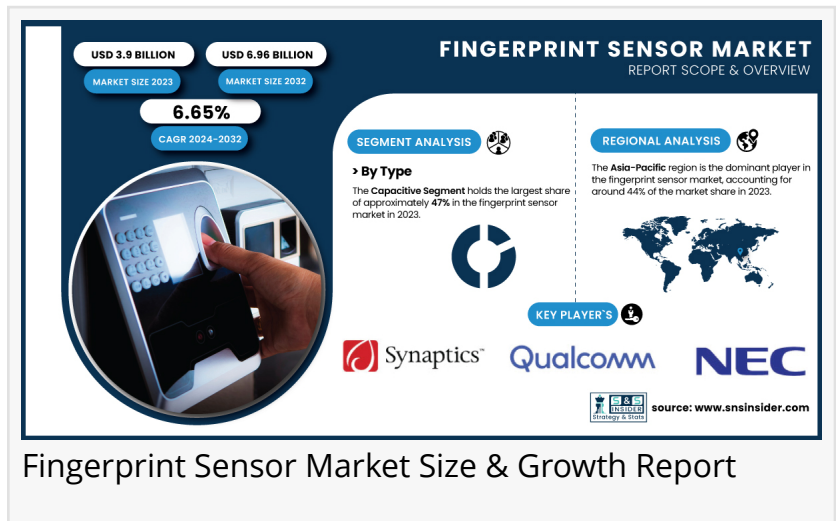


Fingerprint Sensor Market to Hit USD 6.96 Billion by 2032 Driven by Biometric Payment Solutions

Growing need for secure and efficient biometric authentication, particularly in mobile devices and payment systems, is driving the fingerprint sensor market.

AUSTIN, TX, UNITED STATES, February 3, 2025 /EINPresswire.com/ -- Market Size & Industry Insights

According to the SNS Insider Report, "The [Fingerprint Sensor Market Size](#) was valued at USD 3.9 billion in 2023, and is expected to reach USD 6.96 billion by 2032 and grow at a CAGR of 6.65 % over the forecast period 2024-2032."



Fingerprint Sensor Market Size & Growth Report

Technological Advancements and Broader Adoption Fuel Growth in the Fingerprint Sensor Market

The fingerprint sensor market is experiencing rapid growth, fueled by technological advancements and broader adoption across various sectors. In 2023, the integration of AI in biometric sensors increased from 8% to 19%, significantly enhancing their accuracy and reliability. Innovations such as ultrasonic and transparent sensors enable fingerprint recognition through materials like glass and metal, fostering new device designs. In-display sensors are becoming more popular in smartphones, while fingerprint-enabled payment cards are improving convenience in the financial industry. Moreover, the use of fingerprint recognition is expanding in automotive and smart home security systems. The increasing demand for multi-factor authentication and the projected 88% smartphone penetration rate in Europe by 2025 are further driving market growth. Ongoing standardization efforts are also ensuring greater security and consistency across platforms.

Get Free Sample PDF of Fingerprint Sensor Market (with Full TOC & Graphs) @ <https://www.snsinsider.com/sample-request/2099>

SWOT Analysis of Key Players as follows:

- Shenzhen Goodix Technology Co. Ltd. (China)
- Fingerprints (Sweden)
- Synaptics Incorporated (US)
- NEXT Biometrics (Norway)
- Novatek Microelectronics Corp. (Taiwan)
- Qualcomm Technologies Inc. (US)
- THALES (France)
- HID Global Corporation (US)
- SecuGen Corporation (US)
- IDEMIA (France)
- 3M Cogent Inc. (US)
- Precise Biometrics (Sweden)
- EGIS Technology Inc. (Taiwan)
- Crossmatch (US)
- OXI Technology (Germany)
- IDloop (Switzerland)
- Sonavation Inc. (US)
- Touch Biometrix (UK)
- Vkansee (China)
- ELAN Microelectronics (Taiwan)
- CMOS Sensor Inc. (South Korea)
- ID3 Technologies (France)

Rising Demand for Biometric Payment Solutions Drives Growth in the Fingerprint Sensor Market

The fingerprint sensor market is growing due to increasing demand for secure, efficient authentication, especially in the financial sector. Biometric payment cards with fingerprint technology allow secure, contactless transactions without PINs, boosting convenience. A survey revealed that 77% of consumers using biometrics on smartphones or tablets are satisfied, indicating a shift towards biometric authentication. Moreover, 62% of consumers are willing to switch banks for a biometric card. As smartphone penetration and contactless payments rise, biometric payment solutions are expanding rapidly, particularly in regions like the UAE and Europe, further driving growth in the fingerprint sensor market.

The fingerprint sensor market is expanding, driven by the adoption of capacitive and ultrasonic sensors in mobile devices and IoT applications.

By Type

The capacitive fingerprint sensor segment accounted for approximately 47% of the fingerprint sensor market in 2023, driven by its widespread adoption in smartphones, laptops, and consumer electronics. Known for its high accuracy, fast response times, and reliability, capacitive

sensors work by measuring electrical charge from fingerprint ridges and valleys, providing superior image quality and resistance to wear and tear.

The ultrasonic sensor segment is poised for rapid growth from 2024 to 2032, propelled by increasing demand for advanced biometric authentication. Unlike capacitive sensors, ultrasonic sensors create 3D fingerprint images, enabling recognition in challenging conditions and integration under thicker materials, making them ideal for sleek devices.

By Application

In 2023, the smartphones and tablets segment led the fingerprint sensor market, capturing around 55% of the market share. This dominance is driven by the growing adoption of biometric authentication in mobile devices for secure, fast, and reliable user access. As smartphone manufacturers innovate, integrating fingerprint sensors into displays and enhancing security features, the demand remains strong. The trend of bezel-less and edge-to-edge displays further boosts the use of in-display sensors.

The IoT and Other Applications segment is expected to grow rapidly from 2024 to 2032, fueled by the increasing adoption of IoT devices requiring secure authentication and data protection.

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KEY MARKET SEGMENTS:

By Type

- Optical
- Capacitive
- Thermal
- Ultrasonic

By Application

- Smartphones/Tablets
- Laptops
- Smartcards
- IoT and Other Applications

By End User Industries

- Military and Defense
- Consumer Electronics
- BFSI
- Government
- Other End-user Industries

Asia-Pacific Dominates, North America Rises in Fingerprint Sensor Market Growth

In 2023, Asia-Pacific dominated the fingerprint sensor market with a 44% share, driven by rapid technological advancements, high smartphone penetration, and widespread adoption of biometric authentication systems across countries like China, India, Japan, and South Korea, with China leading due to strong government support and high IoT device usage, while Japan and South Korea focus on security in banking, healthcare, and consumer electronics, further bolstered by the growing adoption of fingerprint sensors in mobile payments, wearables, and automotive applications,

North America emerged as the fastest-growing region from 2024 to 2032, fueled by technological innovations, increased use of biometric authentication in mobile payments, and heightened security concerns, with major contributions from the U.S. and Canada as companies like Apple and Google integrate fingerprint sensors into devices, alongside the rising demand for secure identification systems in banking, healthcare, and government sectors, with the growing IoT market and push for data privacy driving further growth.

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Recent Development

-On 29 November 2024, The iQOO Neo10 series now integrates the advanced Goodix ultrasonic fingerprint sensor, making ultrasonic unlocking a standard feature. This addition enhances security and user convenience, providing fast, reliable biometric authentication even through thicker materials.

-September 18, 2024, Fingerprints' Sensor Empowers Infineon's SECORA Pay Bio Solution to Enhance Convenience and Trust of Contactless Biometric Payments

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