

# Fingerprint Sensor Market on the Rise | Industry Set to Reach US\$ 7.35 Bn by 2030 | Vantage Market Research

*Fingerprint Sensor Market Size, Share, Industry Trends, Growth, and Opportunities Analysis by 2030*

WASHINGTON, D.C, DISTRICT OF COLUMBIA, UNITED STATES, February 22, 2024 /EINPresswire.com/ -- The Global [Fingerprint Sensor Market Size](#) was valued at USD 3.31 Billion in 2022, and it is expected to reach USD 7.35 Billion by 2030, growing at a CAGR of 10.50% during the forecast period (2023-2030).



The fingerprint sensor market is experiencing a surge in demand owing to its widespread adoption across various industries. With its applications ranging from smartphones to security systems, the market is witnessing steady growth globally. The driving forces behind this expansion include the increasing emphasis on security measures, technological advancements, and the growing integration of fingerprint sensors in consumer electronics.

This report delves into the multifaceted landscape of the Fingerprint Sensor Market, exploring its dynamics, top trends, challenges, opportunities, key report findings, and a focused regional analysis on the burgeoning Asia Pacific region.

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Market Dynamics:

The fingerprint sensor market is propelled by several factors, including the rising concerns regarding data security, the growing adoption of biometric authentication methods, and the increasing use of fingerprint sensors in government and law enforcement agencies. Additionally, advancements in sensor technology, such as the development of touchless fingerprint sensors

and ultrasonic fingerprint recognition systems, are further driving market growth.

#### Top Companies in Global Fingerprint Sensor Market:

- Goodix (China)
- Fingerprint Cards AB (Sweden)
- Synaptics (US)
- Apple Inc. (US)
- Egis Technology (Taiwan)
- Crucialtec (South Korea)
- Next Biometrics (Norway)
- Novatek Microelectronics (Taiwan)
- Qualcomm (US)
- Q Technology (China)
- CMOS Sensor Inc. (US)
- ELAN Microelectronics (Taiwan)
- Focaltech (China)
- ID3 Technologies (France)
- IDEX Biometrics (Norway)
- Japan Display Inc. (Japan)
- OXI Technology (China)
- Sonavation Inc. (US)
- Touch Biometrix (UK)
- Vkansee (US)

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#### Top Trends:

- Integration of fingerprint sensors in smart home devices for enhanced security.
- Growing demand for fingerprint sensors in automotive applications, such as vehicle access and ignition systems.
- Adoption of fingerprint recognition technology in healthcare for patient identification and access control.
- Emergence of under-display fingerprint sensors for smartphones and tablets.
- Increasing focus on enhancing the accuracy and reliability of fingerprint recognition systems.

#### Top Report Findings:

- Rapid growth in the adoption of fingerprint sensors in the banking and finance sector.
- Asia Pacific region leading the global fingerprint sensor market in terms of revenue.
- Technological advancements driving the demand for fingerprint sensors in emerging

economies.

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Challenges:

- Concerns regarding data privacy and security breaches.
- High manufacturing costs associated with advanced fingerprint sensor technologies.
- Compatibility issues with existing hardware and software systems.

Opportunities:

- Increasing demand for fingerprint sensors in healthcare applications, including patient monitoring and electronic health records.
- Expansion of the Internet of Things (IoT) ecosystem, leading to the integration of fingerprint sensors in a wide range of connected devices.

Global Fingerprint Sensor Market Segmentation:

By Technology

- Capacitive
- Optical
- Thermal
- Ultrasonic

By Sensor Technology

- 2D
- 3D
- By Type
- Area and Touch Sensors
- Swipe Sensors

By DMaterials Used (Qualitative)

- Piezoelectric Materials (Quartz)
- Pyroelectric Materials (Lithium Tantalate)
- Adhesives
- Coating Materials

By Products (Qualitative)

- Authentication system in smart device
- Attendance recording system
- Access Control Systems
- Biometric Smartcards
- Others

By End-Use

- Consumer Electronics
- Travel and Immigration
- Government and Law Enforcement
- Banking & Finance
- Commercial
- Automotive
- Smart Homes
- Healthcare
- Military, Defense, and Aerospace
- Others

#### By Region

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

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#### Key Questions Answered in Fingerprint Sensor Market Report:

- What are the primary factors driving the growth of the fingerprint sensor market?
- Which industry verticals are expected to witness the highest adoption of fingerprint sensors in the coming years?
- What technological advancements are shaping the evolution of fingerprint recognition systems?
- How are regulatory frameworks influencing the deployment of fingerprint sensors?
- What are the key challenges hindering the widespread adoption of fingerprint sensor technology?
- Which regions are likely to dominate the global fingerprint sensor market in the forecast period?
- What are the emerging trends in fingerprint sensor applications across different sectors?
- What strategies are key market players employing to gain a competitive edge in the fingerprint sensor market?

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#### Regional Analysis:

The Asia Pacific region holds a significant share in the global fingerprint sensor market, driven by

factors such as rapid urbanization, increasing smartphone penetration, and government initiatives to promote biometric authentication systems. Countries like China, Japan, and India are witnessing robust growth in demand for fingerprint sensors across various industries, including consumer electronics, BFSI, and healthcare. Moreover, the region is witnessing a surge in investments in research and development activities to innovate and develop advanced fingerprint sensor technologies tailored to meet the diverse needs of the market.

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