

Global Embedded Fingerprint Sensor Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Embedded Fingerprint Sensor market size is expected to reach \$ 12750 million by 2032, rising at a market growth of 6.5% CAGR during the forecast period (2026-2032).

An embedded fingerprint sensor is a compact biometric module integrated directly into a host device?such as a smartphone, laptop, or automotive dashboard?to provide secure, 'frictionless' identity verification. In 2026, the technology has transitioned from physical capacitive buttons to in-display (screen) and under-glass solutions, allowing for seamless industrial designs. The market is currently dominated by Optical (64%) and Ultrasonic (36%) technologies. Modern 2026 sensors are defined by multimodal capabilities (combining fingerprint with vein or heartbeat detection) and large-area sensing, enabling users to authenticate by touching anywhere on a screen rather than a specific fixed point. These sensors are the primary hardware gatekeepers for the 'passwordless' economy, securing over US\$ 3 trillion in mobile payments annually.

In 2025, global embedded fingerprint sensor production reached approximately 1291.13 million units, with an average global market price of around US\$ 6.31 per unit. And global embedded fingerprint sensor production capacity reached approximately 1800 millionunits. The average gross margin in this industry reached 36.62%.

The upstream supply chain for embedded fingerprint sensors is a highly specialized sector of the semiconductor and photonics industry. The core 'raw material' is high-performance CMOS Image Sensors (CIS) for optical modules or Piezoelectric micro-machined ultrasonic transducers (PMUT) for ultrasonic versions. Key upstream suppliers include Qualcomm (the global leader in ultrasonic 3D sensing chips), Sony Semiconductor and Samsung Electronics (providing high-resolution CMOS sensors),

and specialized 'Low-Alpha' quartz and glass providers like Corning or Schott AG. In 2026, a major upstream bottleneck is the sourcing of high-purity thin-film transistors (TFT) and specialized optical adhesives that must maintain transparency and signal integrity over millions of touch cycles.

The downstream segment involves the integration of these sensors into consumer electronics, automotive cockpits, and financial infrastructure. At this stage, value is generated through 'biometric fusion' software that links the hardware to secure enclaves (like Apple's Secure Enclave or Android's StrongBox). Significant downstream customers and high-volume users include Samsung Electronics and Apple (integrating advanced sensors into hundreds of millions of flagship devices), BMW and Tesla (utilizing sensors for driver profile loading and vehicle 'start-on-touch'), and the Banking/BFSI sector, which accounts for roughly 44% of market demand via biometric payment cards and secure ATMs. The 2026 downstream market is increasingly focused on 'Liveness Detection,' utilizing AI to distinguish between a real finger and sophisticated 3D-printed spoofs.

This report studies the global Embedded Fingerprint Sensor production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Embedded Fingerprint Sensor and provides market size (US\$ million) and Year-over-Year (YoY) Growth, considering 2025 as the base year. This report explores demand trends and competition, as well as details the characteristics of Embedded Fingerprint Sensor that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Embedded Fingerprint Sensor total production and demand, 2021-2032, (Million Units)

Global Embedded Fingerprint Sensor total production value, 2021-2032, (USD Million)

Global Embedded Fingerprint Sensor production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Million Units), (based on production site)

Global Embedded Fingerprint Sensor consumption by region & country, CAGR, 2021-2032 & (Million Units)

U.S. VS China: Embedded Fingerprint Sensor domestic production, consumption, key domestic manufacturers and share

Global Embedded Fingerprint Sensor production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Million Units)

Global Embedded Fingerprint Sensor production by Type, production, value, CAGR,

2021-2032, (USD Million) & (Million Units)

Global Embedded Fingerprint Sensor production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Million Units)

This report profiles key players in the global Embedded Fingerprint Sensor market based on the following parameters - company overview, production, value, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include IDEMIA, id3 Technologies, Suprema, FPC, HID, NEXT Biometrics, Synaptics, CAMABIO, Goodix Technology, Qualcomm, etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the World Embedded Fingerprint Sensor market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (Million Units) and average price (US\$/Unit) by manufacturer, by Type, and by Application. Data is given for the years 2021-2032 by year with 2025 as the base year, 2026 as the estimate year, and 2027-2032 as the forecast year.

Global Embedded Fingerprint Sensor Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Embedded Fingerprint Sensor Market, Segmentation by Type:

UART Interface

USB Interface

Global Embedded Fingerprint Sensor Market, Segmentation by Sensor Type:

Capacitive Sensor

Optical Sensor

Ultrasonic Sensor

Global Embedded Fingerprint Sensor Market, Segmentation by Application:

Automotive

Consumer Electronics

Smart Home

Security

Other

Companies Profiled:

IDEMIA

id3 Technologies

Suprema

FPC

HID

NEXT Biometrics

Synaptics

CAMABIO

Goodix Technology

Qualcomm

Egis Technology

Betterlife

ZKTeco

Aratek

Key Questions Answered:

1. How big is the global Embedded Fingerprint Sensor market?
2. What is the demand of the global Embedded Fingerprint Sensor market?
3. What is the year over year growth of the global Embedded Fingerprint Sensor market?
4. What is the production and production value of the global Embedded Fingerprint Sensor market?
5. Who are the key producers in the global Embedded Fingerprint Sensor market?
6. What are the growth factors driving the market demand?

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