

Global Capacitive Fingerprint Sensors Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Capacitive Fingerprint Sensors market size is expected to reach \$ 1766 million by 2032, rising at a market growth of 4.4% CAGR during the forecast period (2026-2032).

In 2025, global Capacitive Fingerprint Sensor production reached approximately 63,850 k units with an average global market price of around US\$ 20 per unit, and a gross profit margin of approximately 10%-30%. Capacitive Fingerprint Sensors are semiconductor biometric devices that capture fingerprint patterns by measuring tiny capacitance differences between ridges and valleys when a finger touches a sensing array. Using CMOS circuitry, they convert the capacitance map into a digital image or feature set for identity verification. Compared with optical methods, capacitive sensors enable compact size, fast response, and good integration into mobile and embedded systems. They are widely used in smartphones, tablets, laptops, access control terminals, smart locks, payment devices, and IoT equipment where secure, convenient authentication and low power consumption are required. The industrial chain of Capacitive Fingerprint Sensors includes upstream silicon wafers, CMOS foundry processes, photomasks, sensor pixel arrays, analog front-end and ASIC design, packaging materials, substrate and cover layers, connectors, and testing equipment. The midstream covers sensor fabrication, wafer probing, packaging, calibration, firmware and secure storage integration, module assembly, and reliability validation. Downstream applications include consumer electronics, smart locks and access control, financial terminals, automotive interior authentication, and industrial devices. Supporting links provide algorithm tuning, security certification, driver integration, quality audits, and after-sales technical support to ensure performance, yield, and compliance.

The capacitive fingerprint sensor market is shaped by the balance between mature

smartphone demand and expanding adoption in smart locks, access control, and embedded IoT devices. While under-display optical solutions compete in premium phones, capacitive sensors remain attractive for side-mounted and power-button designs due to lower cost, faster wake-and-unlock performance, and simpler integration. Growth is increasingly supported by diversification into laptops, payment terminals, and smart home security, where reliable tactile sensing and low power are valued. Suppliers focus on improving moisture tolerance, anti-spoof performance, and security features such as secure enclaves and encrypted templates. At the same time, customers emphasize yield, consistency, and lifecycle support, pushing vendors to strengthen manufacturing control and module-level testing. Overall, steady growth is expected as biometric authentication becomes a default user interface across more device categories.

This report studies the global Capacitive Fingerprint Sensors production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Capacitive Fingerprint Sensors 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 Capacitive Fingerprint Sensors that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Capacitive Fingerprint Sensors total production and demand, 2021-2032, (K Units)

Global Capacitive Fingerprint Sensors total production value, 2021-2032, (USD Million)

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

Global Capacitive Fingerprint Sensors consumption by region & country, CAGR, 2021-2032 & (K Units)

U.S. VS China: Capacitive Fingerprint Sensors domestic production, consumption, key domestic manufacturers and share

Global Capacitive Fingerprint Sensors production by manufacturer, production, price,

value and market share 2021-2026, (USD Million) & (K Units)

Global Capacitive Fingerprint Sensors production by Type, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

Global Capacitive Fingerprint Sensors production by Application, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

This report profiles key players in the global Capacitive Fingerprint Sensors 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 GigaDevice, Goodix, FPC, Chipone, FocalTech, Egis Technology, CAMABIO, Synaptics, JIIOV, IDEX Biometrics, 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 Capacitive Fingerprint Sensors market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (K Units) and average price (USD/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 Capacitive Fingerprint Sensors Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Capacitive Fingerprint Sensors Market, Segmentation by Type:

Swipe Type

Area/Touch Type

Global Capacitive Fingerprint Sensors Market, Segmentation by Encapsulation Materials:

Coating

Sapphire

Glass

Others

Global Capacitive Fingerprint Sensors Market, Segmentation by Sensing Technology:

Silicon Capacitive Sensor

Glass Capacitive Sensor

Global Capacitive Fingerprint Sensors Market, Segmentation by Application:

Mobile Phones

Personal Computers

Others

Companies Profiled:

GigaDevice

Goodix

FPC

Chipone

FocalTech

Egis Technology

CAMABIO

Synaptics

JIIOV

IDEX Biometrics

Midas Touch

Key Questions Answered:

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

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