

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

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## Abstracts

The global Biometric Fingerprint Sensors market size is expected to reach \$ 16278 million by 2032, rising at a market growth of 8.7% CAGR during the forecast period (2026-2032).

In 2025, global Biometric Fingerprint Sensor output reached about 2.2 billion units and global capacity of around 2.5 billion units. The average price is about USD 4 per unit, with gross margins near 42%. Biometric Fingerprint Sensors are electronic sensing devices used to capture and analyze the unique ridge and valley patterns of a human fingerprint for identity authentication, access control, payment verification, and security applications. These sensors convert fingerprint images or electrical characteristics into digital biometric data through technologies such as capacitive, optical, ultrasonic, thermal, and piezoelectric sensing. They are widely integrated into smartphones, laptops, banking systems, automotive access systems, smart locks, government ID programs, and industrial security equipment. The supply chain of Biometric Fingerprint Sensors begins with upstream suppliers of semiconductor wafers, CMOS image sensors, ASIC chips, MEMS components, optical materials, cover glass, ceramics, and packaging substrates. Midstream manufacturers design and produce fingerprint sensor modules, sensor ICs, embedded biometric algorithms, and authentication software, followed by module integration, testing, and packaging. Downstream participants include consumer electronics OEMs, financial institutions, automotive manufacturers, smart home device makers, government agencies, healthcare systems, and enterprise security solution providers that integrate fingerprint authentication into end-use products and systems.

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

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

#### Highlights and key features of the study

Global Biometric Fingerprint Sensors total production and demand, 2021-2032, (Million Units)

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

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

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

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

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

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

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

This report profiles key players in the global Biometric 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 Goodix, Silead, BYD, ZKTeco, Egistec, FocalTech, ELAN Microelectronics, Synaptics, Qualcomm, SecuGen, 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 Biometric Fingerprint Sensors 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 Biometric Fingerprint Sensors Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

#### Global Biometric Fingerprint Sensors Market, Segmentation by Type:

Capacitive Fingerprint Sensors

Optical Fingerprint Sensors

Ultrasonic Fingerprint Sensors

Thermal Fingerprint Sensors

Piezoelectric Fingerprint Sensors

RF Fingerprint Sensors

## Global Biometric Fingerprint Sensors Market, Segmentation by Resolution:

500 DPI

## Global Biometric Fingerprint Sensors Market, Segmentation by Application:

Consumer Electronics

BFSI

Government

Enterprise

Healthcare

Automotive

Smart Home

Others

## Companies Profiled:

Goodix

Silead

BYD

ZKTeco

Egistec

FocalTech

ELAN Microelectronics

Synaptics

Qualcomm

SecuGen

Integrated Biometrics

NEXT Biometrics

IDEX Biometrics

Suprema

**Key Questions Answered:**

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

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