

Global Biometric Fingerprint Sensors Market 2026 by Manufacturers, Regions, Type and Application, Forecast to 2032

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Abstracts

According to our (Global Info Research) latest study, the global Biometric Fingerprint Sensors market size was valued at US\$ 9065 million in 2025 and is forecast to a readjusted size of US\$ 16278 million by 2032 with a CAGR of 8.7% during review period.

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 is a detailed and comprehensive analysis for global Biometric Fingerprint Sensors market. Both quantitative and qualitative analyses are presented by manufacturers, by region & country, by Type and by Application. As the market is constantly changing, this report explores the competition, supply and demand trends, as well as key factors that contribute to its changing demands across many markets. Company profiles and product examples of selected competitors, along with market share estimates of some of the selected leaders for the year 2025, are provided.

Key Features:

Global Biometric Fingerprint Sensors market size and forecasts, in consumption value (\$ Million), sales quantity (Million Units), and average selling prices (US\$/Unit), 2021-2032

Global Biometric Fingerprint Sensors market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (Million Units), and average selling prices (US\$/Unit), 2021-2032

Global Biometric Fingerprint Sensors market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (Million Units), and average selling prices (US\$/Unit), 2021-2032

Global Biometric Fingerprint Sensors market shares of main players, shipments in revenue (\$ Million), sales quantity (Million Units), and ASP (US\$/Unit), 2021-2026

The Primary Objectives in This Report Are:

To determine the size of the total market opportunity of global and key countries

To assess the growth potential for Biometric Fingerprint Sensors

To forecast future growth in each product and end-use market

To assess competitive factors affecting the marketplace

This report profiles key players in the global Biometric Fingerprint Sensors market based on the following parameters - company overview, sales quantity, revenue, 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.

Market Segmentation

Biometric Fingerprint Sensors market is split by Type and by Application. For the period 2021-2032, the growth among segments provides accurate calculations and forecasts for consumption value by Type, and by Application in terms of volume and value. This analysis can help you expand your business by targeting qualified niche markets.

Market segment by Type

- Capacitive Fingerprint Sensors

- Optical Fingerprint Sensors

- Ultrasonic Fingerprint Sensors

- Thermal Fingerprint Sensors

- Piezoelectric Fingerprint Sensors

- RF Fingerprint Sensors

Market segment by Resolution

- 500 DPI

Market segment by Application

- Consumer Electronics

- BFSI

Government

Enterprise

Healthcare

Automotive

Smart Home

Others

Major players covered

Goodix

Silead

BYD

ZKTeco

Egistec

FocalTech

ELAN Microelectronics

Synaptics

Qualcomm

SecuGen

Integrated Biometrics

NEXT Biometrics

IDEX Biometrics

Suprema

Market segment by region, regional analysis covers

North America (United States, Canada, and Mexico)

Europe (Germany, France, United Kingdom, Russia, Italy, and Rest of Europe)

Asia-Pacific (China, Japan, Korea, India, Southeast Asia, and Australia)

South America (Brazil, Argentina, Colombia, and Rest of South America)

Middle East & Africa (Saudi Arabia, UAE, Egypt, South Africa, and Rest of Middle East & Africa)

The content of the study subjects, includes a total of 15 chapters:

Chapter 1, to describe Biometric Fingerprint Sensors product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Biometric Fingerprint Sensors, with price, sales quantity, revenue, and global market share of Biometric Fingerprint Sensors from 2021 to 2026.

Chapter 3, the Biometric Fingerprint Sensors competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Biometric Fingerprint Sensors breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2021 to 2032.

Chapter 5 and 6, to segment the sales by Type and by Application, with sales market share and growth rate by Type, by Application, from 2021 to 2032.

Chapter 7, 8, 9, 10 and 11, to break the sales data at the country level, with sales quantity, consumption value, and market share for key countries in the world, from 2021 to 2026. and Biometric Fingerprint Sensors market forecast, by regions, by Type, and by Application, with sales and revenue, from 2027 to 2032.

Chapter 12, market dynamics, drivers, restraints, trends, and Porters Five Forces analysis.

Chapter 13, the key raw materials and key suppliers, and industry chain of Biometric Fingerprint Sensors.

Chapter 14 and 15, to describe Biometric Fingerprint Sensors sales channel, distributors, customers, research findings and conclusion.

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