

# Global In-Display Fingerprint Chips Supply, Demand and Key Producers, 2023-2029

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## Abstracts

The global In-Display Fingerprint Chips market size is expected to reach \$ 5495.6 million by 2029, rising at a market growth of 6.4% CAGR during the forecast period (2023-2029).

The current commercialized In-Display Fingerprint Chips are mainly based on optical fingerprint recognition chips. The principle of fingerprint recognition under the optical screen is that after pressing the OLED screen, the light generated by the OLED will illuminate the texture of the finger, and then the light will be reflected to the fingerprint recognition sensor under the screen. , generate a fingerprint image. This process is simple to say, but optical fingerprint recognition involves optical lens systems, sensor chips, cover glass, and OLED screens, and multiple suppliers are involved in research and development.

Ultrasonic fingerprint recognition technology is led by Qualcomm, but the technology maturity still needs to be improved. Its principle is different from optical fingerprint recognition. It does not rely on the screen to emit light, but the sensor actively emits ultrasonic waves, penetrates the screen and glass to reach the human skin, and then receives and reflects back Using the difference between the fingerprint surface and air density to construct a 3D fingerprint image and compare it with the fingerprint information. Ultrasound has strong penetrability, so there is no need to worry about water stains and stains on the skin surface. The recognition rate is high, and it can also be detected with wet hands. Moreover, ultrasonic waves can penetrate the skin, unlike optical fingerprint recognition, which can only detect the epidermis.

In-Display Fingerprint Chips is a more advanced biometric technology than traditional fingerprint recognition technology. It can embed the fingerprint sensor under the

smartphone screen to achieve a more convenient, fast and secure fingerprint unlocking experience.

Consumers' demand for more convenient, fast and secure smartphone unlocking methods is the key driving factor for the development of under-display fingerprint sensors. With the expansion of production scale and continuous advancement of technology, the production cost of under-display fingerprint sensors is constantly decreasing, which also provides strong support for its market development.

In-Display fingerprint recognition technology is a new technology that completes the fingerprint recognition and unlocking process through the bottom of the screen. It mainly uses ultrasonic, optical and other technologies to penetrate various materials to achieve the purpose of fingerprint recognition. According to the technical principle, In-Display Fingerprint Chips can be divided into optical type, ultrasonic type and capacitive type

This report studies the global In-Display Fingerprint Chips production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for In-Display Fingerprint Chips, and provides market size (US\$ million) and Year-over-Year (YoY) Growth, considering 2022 as the base year. This report explores demand trends and competition, as well as details the characteristics of In-Display Fingerprint Chips that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global In-Display Fingerprint Chips total production and demand, 2018-2029, (K Units)

Global In-Display Fingerprint Chips total production value, 2018-2029, (USD Million)

Global In-Display Fingerprint Chips production by region & country, production, value, CAGR, 2018-2029, (USD Million) & (K Units)

Global In-Display Fingerprint Chips consumption by region & country, CAGR, 2018-2029 & (K Units)

U.S. VS China: In-Display Fingerprint Chips domestic production, consumption, key domestic manufacturers and share

Global In-Display Fingerprint Chips production by manufacturer, production, price, value and market share 2018-2023, (USD Million) & (K Units)

Global In-Display Fingerprint Chips production by Type, production, value, CAGR, 2018-2029, (USD Million) & (K Units)

Global In-Display Fingerprint Chips production by Application production, value, CAGR, 2018-2029, (USD Million) & (K Units)

This reports profiles key players in the global In-Display Fingerprint Chips 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 Synaptics, Fingerprint Cards, Qualcomm, AuthenTec, Goodix Technology, Egis Technology, (SILEAD) GigaDevice, Chipone and FocalTech, etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals, COVID-19 and Russia-Ukraine War Influence.

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the World In-Display Fingerprint Chips market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (K Units) and average price (US\$/Unit) by manufacturer, by Type, and by Application. Data is given for the years 2018-2029 by year with 2022 as the base year, 2023 as the estimate year, and 2024-2029 as the forecast year.

Global In-Display Fingerprint Chips Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

### Global In-Display Fingerprint Chips Market, Segmentation by Type

Optical Type

Ultrasonic Type

Others

### Global In-Display Fingerprint Chips Market, Segmentation by Application

Mobile

Tablet

Automotive

Door Locks

Others

### Companies Profiled:

Synaptics

Fingerprint Cards

Qualcomm

AuthenTec

Goodix Technology

Egis Technology

(SILEAD) GigaDevice

Chipone

FocalTech

Suzhou Mairui Microelectronics

Sunwave Corporation

Shenzhen Xinqihang Technology

Shenzhen Betterlife Electronic Science and Technology

FingerTech

ELAN Microelectronics

Metrics Technology

OXi Technology

VKANSEE

## Key Questions Answered

1. How big is the global In-Display Fingerprint Chips market?
2. What is the demand of the global In-Display Fingerprint Chips market?
3. What is the year over year growth of the global In-Display Fingerprint Chips market?

4. What is the production and production value of the global In-Display Fingerprint Chips market?
5. Who are the key producers in the global In-Display Fingerprint Chips market?
6. What are the growth factors driving the market demand?

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