

# Global In-Display Fingerprint Chips Market Growth 2023-2029

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## Abstracts

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The global In-Display Fingerprint Chips market size is projected to grow from US\$ 3377.5 million in 2022 to US\$ 5413.3 million in 2029; it is expected to grow at a CAGR of 7.0% from 2023 to 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

LPI (LP Information)' newest research report, the "In-Display Fingerprint Chips Industry Forecast" looks at past sales and reviews total world In-Display Fingerprint Chips sales in 2022, providing a comprehensive analysis by region and market sector of projected In-Display Fingerprint Chips sales for 2023 through 2029. With In-Display Fingerprint Chips sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US\$ millions of the world In-Display Fingerprint Chips industry.

This Insight Report provides a comprehensive analysis of the global In-Display Fingerprint Chips landscape and highlights key trends related to product segmentation, company formation, revenue, and market share, latest development, and M&A activity. This report also analyzes the strategies of leading global companies with a focus on In-Display Fingerprint Chips portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global In-Display Fingerprint Chips market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for In-Display Fingerprint Chips and breaks down the forecast by type, by application, geography, and market size to highlight emerging pockets of opportunity. With a transparent methodology based on hundreds of bottom-up qualitative and quantitative market inputs, this study forecast offers a highly nuanced view of the current state and future trajectory in the global In-Display Fingerprint Chips.

This report presents a comprehensive overview, market shares, and growth opportunities of In-Display Fingerprint Chips market by product type, application, key manufacturers and key regions and countries.

Market Segmentation:

Segmentation by type

Optical Type

Ultrasonic Type

Others

Segmentation by application

Mobile

Tablet

Automotive

Door Locks

Others

This report also splits the market by region:

Americas

United States

Canada

Mexico

Brazil

## APAC

China

Japan

Korea

Southeast Asia

India

Australia

## Europe

Germany

France

UK

Italy

Russia

## Middle East & Africa

Egypt

South Africa

Israel

Turkey

GCC Countries

The below companies that are profiled have been selected based on inputs gathered from primary experts and analyzing the company's coverage, product portfolio, its market penetration.

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 Addressed in this Report

What is the 10-year outlook for the global In-Display Fingerprint Chips market?

What factors are driving In-Display Fingerprint Chips market growth, globally and by region?

Which technologies are poised for the fastest growth by market and region?

How do In-Display Fingerprint Chips market opportunities vary by end market size?

How does In-Display Fingerprint Chips break out type, application?

What are the influences of COVID-19 and Russia-Ukraine war?

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