

Global In-Display Fingerprint Chips Market 2023 by Manufacturers, Regions, Type and Application, Forecast to 2029

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Abstracts

According to our (Global Info Research) latest study, the global In-Display Fingerprint Chips market size was valued at USD 3552.6 million in 2022 and is forecast to a readjusted size of USD 5495.6 million by 2029 with a CAGR of 6.4% during review period. The influence of COVID-19 and the Russia-Ukraine War were considered while estimating market sizes.

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 OELD 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 re cognition. According to the technical principle, In-Display Fingerprint Chips can be divided into optical type, ultrasonic type and capacitive type

This report is a detailed and comprehensive analysis for global In-Display Fingerprint Chips 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 2023, are provided.

Key Features:

Global In-Display Fingerprint Chips market size and forecasts, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2018-2029

Global In-Display Fingerprint Chips market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2018-2029

Global In-Display Fingerprint Chips market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2018-2029



Global In-Display Fingerprint Chips market shares of main players, shipments in revenue (\$ Million), sales quantity (K Units), and ASP (US\$/Unit), 2018-2023

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 In-Display Fingerprint Chips

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 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 and Goodix Technology, etc.

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

Market Segmentation

In-Display Fingerprint Chips market is split by Type and by Application. For the period 2018-2029, 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

Optical Type

Ultrasonic Type

Others

Market segment by Application



	Mobile
	Tablet
	Automotive
	Door Locks
	Others
Major players covered	
	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

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 In-Display Fingerprint Chips product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of In-Display Fingerprint Chips, with price, sales, revenue and global market share of In-Display Fingerprint Chips from 2018 to 2023.

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

Chapter 4, the In-Display Fingerprint Chips breakdown data are shown at the regional



level, to show the sales quantity, consumption value and growth by regions, from 2018 to 2029.

Chapter 5 and 6, to segment the sales by Type and application, with sales market share and growth rate by type, application, from 2018 to 2029.

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 2017 to 2022.and In-Display Fingerprint Chips market forecast, by regions, type and application, with sales and revenue, from 2024 to 2029.

Chapter 12, market dynamics, drivers, restraints, trends, Porters Five Forces analysis, and Influence of COVID-19 and Russia-Ukraine War.

Chapter 13, the key raw materials and key suppliers, and industry chain of In-Display Fingerprint Chips.

Chapter 14 and 15, to describe In-Display Fingerprint Chips sales channel, distributors, customers, research findings and conclusion.



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