

Global Under-screen Optical Fingerprint Chips Market 2026 by Manufacturers, Regions, Type and Application, Forecast to 2032

<https://marketpublishers.com/r/GD2D47B69E33EN.html>

Date: June 2026

Pages: 95

Price: US\$ 3,480.00 (Single User License)

ID: GD2D47B69E33EN

Abstracts

According to our (Global Info Research) latest study, the global Under-screen Optical Fingerprint Chips market size was valued at US\$ 2108 million in 2025 and is forecast to a readjusted size of US\$ 2993 million by 2032 with a CAGR of 5.2% during review period.

The under-screen optical fingerprint chip is an advanced biometric technology that is widely used in mobile devices such as smartphones and tablets, realizing the function of fingerprint recognition under the display screen. This technology captures the user's fingerprint image through a sensor embedded in the screen and matches and verifies it with a pre-stored template, providing a safe and convenient unlocking experience and payment authentication. The working principle of the under-screen optical fingerprint chip is to use the self-luminous characteristics of the OLED screen. When the finger presses the screen, the light emitted by the screen illuminates the fingerprint, and then reflects back to the optical sensor located under the screen through the tiny pores in the screen substrate. After the sensor collects the high-resolution fingerprint image, it is analyzed by the image processing algorithm to complete the fingerprint recognition process.

This report is a detailed and comprehensive analysis for global Under-screen Optical 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 2025, are provided.

Key Features:

Global Under-screen Optical Fingerprint Chips market size and forecasts, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2021-2032

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

Global Under-screen Optical 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), 2021-2032

Global Under-screen Optical Fingerprint Chips market shares of main players, shipments in revenue (\$ Million), sales quantity (K 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 Under-screen Optical 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 Under-screen Optical Fingerprint Chips 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 Synaptics, CrucialTec, Goodix Technology, Beijing Chipone Technology, Beijing GigaDevice, Egis Technology, Fingerprint Cards, NEXT Biometrics, etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

Market Segmentation

Under-screen Optical Fingerprint Chips 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

Lens Type

Ultra-thin Type

Market segment by Application

Smartphone

Tablet

Smart Door Lock

POS Terminal

Others

Major players covered

Synaptics

CrucialTec

Goodix Technology

Beijing Chipone Technology

Beijing GigaDevice

Egis Technology

Fingerprint Cards

NEXT Biometrics

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 Under-screen Optical Fingerprint Chips product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Under-screen Optical Fingerprint Chips, with price, sales quantity, revenue, and global market share of Under-screen Optical Fingerprint Chips from 2021 to 2026.

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

Chapter 4, the Under-screen Optical Fingerprint Chips 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 Under-screen Optical Fingerprint Chips 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 Under-screen Optical Fingerprint Chips.

Chapter 14 and 15, to describe Under-screen Optical Fingerprint Chips sales channel, distributors, customers, research findings and conclusion.

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