

Global Under-display Optical Fingerprint Sensor Supply, Demand and Key Producers, 2026-2032

<https://marketpublishers.com/r/G4F396A57B9EEN.html>

Date: June 2026

Pages: 119

Price: US\$ 4,480.00 (Single User License)

ID: G4F396A57B9EEN

Abstracts

The global Under-display Optical Fingerprint Sensor market size is expected to reach \$ 3009 million by 2032, rising at a market growth of 5.5% CAGR during the forecast period (2026-2032).

In 2025, global Under-display Optical Fingerprint Sensor production reached approximately 670.55 M Units. The average price is approximately \$3. An Under-display Optical Fingerprint Sensor is a biometric sensing technology embedded beneath a display (typically OLED) that uses light-based imaging to capture and authenticate a user's fingerprint through the screen.

Gross Margin Levels

Gross margin levels within the under-display optical fingerprint sensor industry exhibit a distinct stratification. For optical fingerprint chips and modules used in standard smartphones where competition is fierce and handset manufacturers possess strong bargaining power, the comprehensive gross margin typically ranges from 20% to 35%. Leading solution providers, those possessing proprietary algorithms, sensor chips, optical structures, and customer certification capabilities, can achieve gross margins of 35% to 45%. Furthermore, high-end solutions, such as ultra-thin, large-area, high-security-grade, or multi-modal fusion sensors, as well as those designed for automotive or payment terminal applications, can command even higher gross margins of 45% to 55%, driven by longer certification cycles, high degrees of customization, and more stringent reliability requirements. However, the industry is significantly impacted by smartphone market cycles and declining Average Selling Prices (ASPs); consequently, the gross margins of module manufacturers are typically lower than those of chip solution providers. Fingerprint Cards' 2024 annual report, for instance, revealed a full-

year gross margin of 11.3%?or 31.5% after excluding the impact of capitalized R&D amortization?underscoring the substantial volatility in profitability within the fingerprint sensor industry amidst intense price competition and shifts in product mix.

Industry Drivers

Growth in the under-display optical fingerprint sensor industry is primarily driven by rising OLED smartphone penetration rates, the demand for full-screen display designs, the need for enhanced mobile payment security, hardware configuration upgrades in mid-to-high-end Android models, trends toward foldable screens and thinner device profiles, and the expanding application of identity authentication in smart door locks and IoT ecosystems. Compared to traditional side-mounted or rear-mounted fingerprint sensors, under-display optical solutions align more seamlessly with full-screen and integrated aesthetic designs; moreover, being lower in cost than ultrasonic solutions, they are expected to maintain a high penetration rate within the Android smartphone market over the long term. In the future, industry growth will no longer rely solely on smartphone shipment volumes, but will increasingly stem from upgrades in high-end product capabilities?such as ultra-thin modules, large-area recognition, compatibility with low-transmittance screens, recognition with wet fingers or screen protectors, AI-enhanced image processing, and authentication solutions for automotive and payment terminal applications. Overall, industry competition is shifting from a binary question of 'can we successfully implement under-display fingerprint technology?' to a comprehensive contest centered on a multifaceted set of criteria: recognition speed, false acceptance rates, module thickness, power efficiency, robustness in complex environments, and overall integration costs for the host device.

This report studies the global Under-display Optical Fingerprint Sensor production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Under-display Optical Fingerprint Sensor and provides market size (US\$ million) and Year-over-Year (YoY) Growth, considering 2025 as the base year. This report explores demand trends and competition, as well as details the characteristics of Under-display Optical Fingerprint Sensor that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Under-display Optical Fingerprint Sensor total production and demand, 2021-2032, (K Units)

Global Under-display Optical Fingerprint Sensor total production value, 2021-2032, (USD Million)

Global Under-display Optical Fingerprint Sensor production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (K Units), (based on production site)

Global Under-display Optical Fingerprint Sensor consumption by region & country, CAGR, 2021-2032 & (K Units)

U.S. VS China: Under-display Optical Fingerprint Sensor domestic production, consumption, key domestic manufacturers and share

Global Under-display Optical Fingerprint Sensor production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (K Units)

Global Under-display Optical Fingerprint Sensor production by Type, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

Global Under-display Optical Fingerprint Sensor production by Application, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

This report profiles key players in the global Under-display Optical Fingerprint Sensor 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 Goodix Technology, GigaDevice, Egis Technology, Synaptics, Fingerprint Cards AB, Chipone Technology, JIIOVTechnology, BOE Technology Group, OFILMGroup, Q Technology Group, etc.

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

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the World Under-display Optical Fingerprint Sensor 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 2021-2032 by year with 2025 as the base year, 2026 as the estimate year, and 2027-2032 as the forecast year.

Global Under-display Optical Fingerprint Sensor Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Under-display Optical Fingerprint Sensor Market, Segmentation by Type:

Collimator Type

Microlens Array Type

Short-Focus Lens Type

Others

Global Under-display Optical Fingerprint Sensor Market, Segmentation by Display Compatibility Type:

OLED Under-Display Optical Fingerprint Sensor

Flexible OLED Under-Display Optical Fingerprint Sensor

Rigid OLED Under-Display Optical Fingerprint Sensor

Others

Global Under-display Optical Fingerprint Sensor Market, Segmentation by Effective Recognition Area:

200 mm?: Large-Area Full-Coverage Type

Global Under-display Optical Fingerprint Sensor Market, Segmentation by Application:

Smartphone Industry

Tablet and Laptop Industry

Automotive Electronics Industry

Others

Companies Profiled:

Goodix Technology

GigaDevice

Egis Technology

Synaptics

Fingerprint Cards AB

Chipone Technology

JIIOVTechnology

BOE Technology Group

OFILMGroup

Q Technology Group

Partron

MCNEX

Dreamtech

CrucialTec

Japan Display Inc.

Key Questions Answered:

1. How big is the global Under-display Optical Fingerprint Sensor market?
2. What is the demand of the global Under-display Optical Fingerprint Sensor market?
3. What is the year over year growth of the global Under-display Optical Fingerprint Sensor market?
4. What is the production and production value of the global Under-display Optical Fingerprint Sensor market?
5. Who are the key producers in the global Under-display Optical Fingerprint Sensor market?
6. What are the growth factors driving the market demand?

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