

REPORT ABSTRACT

Display Fingerprint Technology and Market Report - 2019

Calvin Hsieh, Director

ACTUALS AND FORECAST
Frequency, Time Period

- Annual update

Measures

FoD shipment, revenue and ASP by:

- Sensing principle (optical imaging, ultrasound, capacitive, etc.)
- Sensing technology for principles
- Sensor location (under-, on-, in-display; in-cell, on-cell)
- Sensor area (fixed, larger, full)
- Sensor Rx process (silicon, TFT)
- Multi-finger support (single, multiple)

Fingerprint module cost models by:

- BOM with detailed parts (sensor, supportive parts, controller, package, FPC, etc.)
- Solution IC maker's gross profit
- Module assembly's gross profit

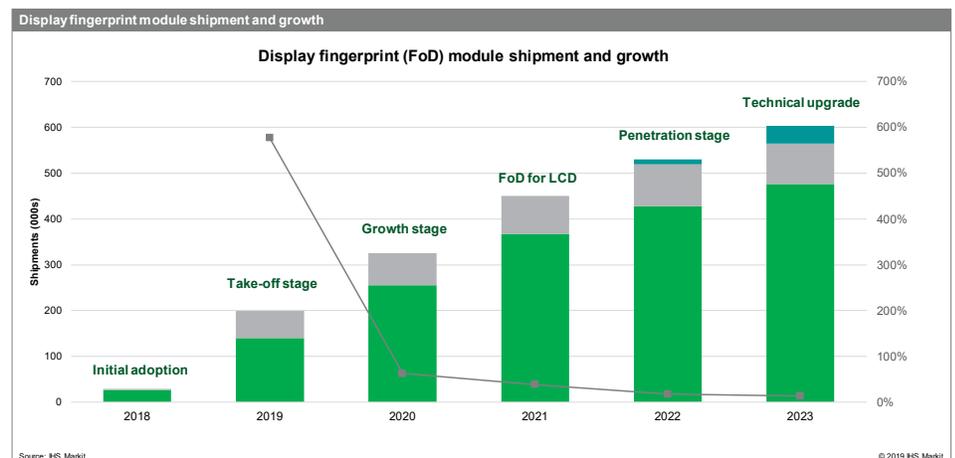
PRODUCT COVERAGE

- Mobile phone
- Tablet PC
- Notebook PC

Display fingerprint (FoD) technology combines or integrates fingerprint modules with the display so that it can offer invisible and front-side fingerprint sensing on smartphones with 18:9 (or higher ratio) full-screen displays.

The annual Display Fingerprint Technology and Market Report provides a comprehensive analysis of emerging display fingerprint solutions including technology, development roadmap, supply chain, competition, cost model and market forecast. TFT-based display fingerprint solutions including existing add-on (under-display) and emerging embedded types (in-cell or on-cell FoD with the display) is also focused.

Besides technology and supply chain information, the market forecast has detailed technical parameters in the pivot tables to describe both market and technology trends. The report has more than 140 pages and many illustrations, providing the most complete understanding and tracking on the latest display fingerprint sensing adoption.


Key Issues Addressed

- Optical imaging CIS solution update including pinhole, lens type and large-area solution
- Ultrasonic 2D solution update
- Emerging TFT-based solution update including capacitive and optical imaging
- Embedded FoD solution development including in-cell sensor structure
- Supply chain information including makers and manufacturing process
- BOM-level module cost modeling
- Quantitative market analysis and description with the comprehensive pivot-based forecast.
- Latest FoD-related patent analysis

Applicable To

- Fingerprint IC makers
- Panel makers
- IT/CE brands, OEMs, ODMs
- Module assembly makers
- Related material makers
- Semiconductor wafer and package
- Product marketing/strategic planning managers
- Marketing intelligence managers
- Product marketing managers
- R & D managers
- Procurement managers
- The investment community

Lead analyst

Calvin Hsieh - Director

Calvin Hsieh is a research director at IHS Markit Technology Group. He has more than a decade of experience crafting strategies and managing product lines at leading display organizations across the globe.

Prior to joining IHS Markit, Calvin was the product marketing director at Proview Electronics, one of the world's largest LCD monitor and TV manufacturers. His past experiences also include imaging software development, e-commerce and display-related industry.

TECHNOLOGY SOLUTIONS FROM IHS MARKIT

The Technology Group at IHS Markit is the leading source of information, insight and analytics in critical areas that shape today's technology ecosystem—from materials and components, to devices and equipment, to end markets and consumers. Businesses and governments in more than 150 countries around the globe rely on the deep market insight and expert independent analysis of our 300+ industry analysts in technology sectors spanning IT, telecom, media, industrial, automotive, electronics, solar and more.

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