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Fingerprint Sensor Market with Covid–19 Impact by Technology (Capacitive, Optical, Thermal and, Ultrasonic), Type (Area, Touch, and Swipe), Sensor Technology, Product, End–Use Application, and Region - Global Forecast to 2026

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Abstracts

The extensive use of fingerprint sensors in consumer devices, the effective implementation of biometric time and attendance systems for calculating employee productivity, work hours, and others, and the high adoption of biometrics by the governments worldwide for enhanced security are the key factors driving the growth of the fingerprint sensor market. However, threats pertaining to the biometric database are the major restraint that hinders the growth of the fingerprint sensor market. On the contrary, the emergence of biometric smartcards in BFSI applications, the newest trend of in-display fingerprint sensors in smartphones, and the rise in the adoption of fingerprint sensors in IoT-based devices are likely to provide lucrative opportunities to the fingerprint sensor market players during 2021–2026. Moreover, the rising use of facial recognition technology in payments, access and security, and criminal identification applications pose challenges to the fingerprint sensor market.

Ultrasonic fingerprint sensors will have the highest growth in the coming years

The Ultrasonic fingerprint sensors segment is projected to register a higher CAGR from 2021 to 2026, Ultrasonic sensors read the epidermal skin layer as well as a dermal skin layer, capturing the fine details. Therefore, these sensors can read wet fingers and fingers with ruptured skin or damaged skin. Advances in sensing technology are expected to accelerate the ultrasonic fingerprint sensor market growth. In terms of size, Capacitive is the leading technology in the fingerprint sensor market; this is mainly because of its low cost and high consumer acceptance. Capacitive sensors can be

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highly compact and used in mobile and portable devices. Biometric smartcards, vehicle scanners, and smart locks are among a few of the emerging applications of capacitive fingerprint sensors, which would further provide growth opportunities for the capacitive sensor market.

Consumer Electronics end–use application is expected to hold the largest share in 2026

The consumer electronics application is likely to account for the largest size of the market for fingerprint sensors in the coming years mainly because of the rise in demand for these sensors in consumer devices such as smartphones, tablets, laptops, and notebooks. Consumer IoT devices are expected to provide opportunities for the market during the forecast period.

Banking and finance is expected to be the fastest-growing application during the forecast period due to the growing adoption of fingerprint sensors in smartcards used for payments. Several entities such as fingerprint sensor manufacturers, smartcard manufactures, and card issuers across the value chain are taking initiatives to increase the adoption of biometric payment cards across the world. A few of the players include Fingerprint Cards, NEXT Biometrics, IDEX ASA, IDEMIA, Gemalto, Kona I, XH Smart, Goldpac, and issuers include AirPlus, Intesa Sanpaolo, Soci?t? G?n?raleMACU, and Banks in the Middle East. In April 2019, the Royal Bank of Scotland (RBS) started its biometric payment card trial with customers in Scotland. The card is provided by Gemalto and is using Fingerprints’ T-shape sensor module.

APAC is attributed to growing at the highest CAGR in the fingerprint sensor market during the forecast period (2021-2026)

APAC dominates the fingerprint sensor market mainly because consumer electronics is the key application for fingerprint sensors, and APAC is the major market for consumer electronics. Key countries in APAC include China, Japan, India, and South Korea. Major demand for fingerprint sensors is propelled by OEMs based in China and South Korea. Major smartphone manufacturers in China include Huawei, Xiaomi, Oppo, and Vivo, while Samsung, based in South Korea, is one of the leaders in the smartphone market, which accelerates the fingerprint sensor market growth in APAC. Other critical applications for which fingerprint sensors are adopted in APAC include banking and finance, government and law enforcement, and travel and immigration. A few of the leading players in the fingerprint sensor market in APAC are Goodix (China), EGIS Technology (Taiwan), Q Technology (China), and CrucialTec (South Korea).

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The break-up of primary participants for the report has been shown below:

By Company Type: Tier 1 - 45%, Tier 2 - 32%, and Tier 3 - 23%

By Designation: C-level Executives - 30%, Director Level - 45%, and Others - 25%

By Region: North America - 26%, Europe - 40%, APAC - 22%, and RoW - 12%

Fingerprint sensor market was dominated by Goodix (China), Fingerprint Cards AB (Sweden), Synaptics (US), Apple Inc. (US), and Egis Technology (Taiwan).

Research Coverage:

This research report categorizes the fingerprint sensor market by technology, type, sensor technology, end-use application and region. The report describes the major drivers, restraints, challenges, and opportunities pertaining to the fingerprint sensor market and forecasts the same till 2026.

Key Benefits of Buying the Report

The report would help leaders/new entrants in this market in the following ways:

1. This report segments the fingerprint sensor market comprehensively and provides the closest market size projection for all subsegments across different regions.
2. The report helps stakeholders understand the pulse of the market and provides them with information on key drivers, restraints, challenges, and opportunities for market growth.
3. This report would help stakeholders understand their competitors better and gain more insights to improve their position in the business. The competitive landscape section includes product launches and developments, collaborations, contracts and acquisitions.
4. This report would help understand the pre and post-COVID-19 scenarios as to how would the penetration of fingerprint sensors will look like for the forecast period. The region segment includes the country wise impact analysis of COVID-19 and initiatives taken to overcome these impacts.

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Contents

1 INTRODUCTION

1.1 STUDY OBJECTIVES
1.2 MARKET DEFINITION
  1.2.1 INCLUSIONS AND EXCLUSIONS
1.3 STUDY SCOPE
  1.3.1 MARKETS COVERED
FIGURE 1 SEGMENTATION OF FINGERPRINT SENSOR MARKET
  1.3.2 GEOGRAPHIC SCOPE
  1.3.3 YEARS CONSIDERED
1.4 CURRENCY
1.5 LIMITATIONS
1.6 STAKEHOLDERS
1.7 SUMMARY OF CHANGES

2 RESEARCH METHODOLOGY

2.1 RESEARCH DATA
FIGURE 2 FINGERPRINT SENSOR MARKET: RESEARCH DESIGN
  2.1.1 SECONDARY AND PRIMARY RESEARCH
    2.1.1.1 Key industry insights
  2.1.2 SECONDARY DATA
    2.1.2.1 List of major secondary sources
    2.1.2.2 Secondary sources
  2.1.3 PRIMARY DATA
    2.1.3.1 Primary interviews with experts
    2.1.3.2 Breakdown of primaries
    2.1.3.3 Key data from primary sources
2.2 MARKET SIZE ESTIMATION
  2.2.1 BOTTOM-UP APPROACH
    2.2.1.1 Approach for bottom-up analysis (demand side)
FIGURE 3 MARKET SIZE ESTIMATION METHODOLOGY: BOTTOM-UP APPROACH
FIGURE 4 MARKET SIZE ESTIMATION METHODOLOGY: APPROACH 2 (DEMAND SIDE): ILLUSTRATION OF REVENUE ESTIMATION FOR ONE COMPANY IN FINGERPRINT SENSOR MARKET
  2.2.2 TOP-DOWN APPROACH
FIGURE 5 MARKET SIZE ESTIMATION METHODOLOGY: TOP-DOWN APPROACH

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FIGURE 6 MARKET SIZE ESTIMATION METHODOLOGY: APPROACH 2 (SUPPLY SIDE): REVENUE GENERATED FROM PRODUCTS IN FINGERPRINT SENSOR MARKET
2.3 MARKET BREAKDOWN AND DATA TRIANGULATION
FIGURE 7 DATA TRIANGULATION
2.4 RESEARCH ASSUMPTIONS
FIGURE 8 ASSUMPTIONS FOR RESEARCH STUDY
2.5 RISK ASSESSMENT
TABLE 1 RISK FACTOR ANALYSIS
2.6 FORECASTING ASSUMPTIONS
2.7 COMPETITIVE LEADERSHIP MAPPING METHODOLOGY
TABLE 2 EVALUATION CRITERIA
2.7.1 VENDOR INCLUSION CRITERIA
2.8 STUDY LIMITATIONS

3 EXECUTIVE SUMMARY

FIGURE 9 BANKING AND FINANCE APPLICATION TO WITNESS HIGHEST CAGR IN FINGERPRINT SENSOR MARKET DURING FORECAST PERIOD
FIGURE 10 CAPACITIVE TECHNOLOGY-ENABLED FINGERPRINT SENSORS TO ACCOUNT FOR LARGEST MARKET SIZE DURING FORECAST PERIOD
FIGURE 11 AREA AND TOUCH FINGERPRINT SENSORS EXPECTED TO ACCOUNT FOR LARGER MARKET SIZE IN 2026
FIGURE 12 APAC TO ACCOUNT FOR LARGEST SHARE OF OVERALL FINGERPRINT
SENSOR MARKET IN 2026
3.1 IMPACT ANALYSIS OF COVID-19 ON FINGERPRINT SENSOR MARKET
FIGURE 13 FINGERPRINT SENSOR MARKET SIZE IN PRE-COVID AND POST-COVID SCENARIOS
TABLE 3 FINGERPRINT SENSOR MARKET, IN PRE-COVID AND POST-COVID SCENARIOS, 2019–2026 (USD MILLION)
3.1.1 PRE-COVID-19 SCENARIO
3.1.2 POST-COVID-19 SCENARIO

4 PREMIUM INSIGHTS

4.1 ATTRACTIVE MARKET OPPORTUNITIES IN FINGERPRINT SENSOR MARKET
FIGURE 14 GROWING ADOPTION OF FINGERPRINT SENSORS IN CONSUMER ELECTRONICS TO SURGE MARKET GROWTH DURING FORECAST PERIOD

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4.2 FINGERPRINT SENSOR MARKET, BY TYPE
FIGURE 15 AREA AND TOUCH FINGERPRINT SENSORS EXPECTED TO LEAD MARKET, IN TERMS OF SIZE, DURING FORECAST PERIOD
4.3 FINGERPRINT SENSOR MARKET, BY TECHNOLOGY
FIGURE 16 CAPACITIVE IS EXPECTED TO HOLD LARGEST SHARE OF MARKET BY 2026
4.4 FINGERPRINT SENSOR MARKET, BY REGION
FIGURE 17 APAC TO HOLD MAJOR SHARE AND GROW AT HIGHEST CAGR IN FINGERPRINT SENSOR BETWEEN 2021 AND 2026

5 MARKET OVERVIEW

5.1 INTRODUCTION
5.2 MARKET DYNAMICS
FIGURE 18 HIGH ADOPTION OF BIOMETRICS IN LAW ENFORCEMENT AND GOVERNMENT APPLICATIONS TO DRIVE FINGERPRINT SENSOR MARKET GROWTH
5.2.1 DRIVERS
FIGURE 19 IMPACT OF DRIVERS ON FINGERPRINT SENSOR MARKET
5.2.1.1 Extensive use of fingerprint sensors in consumer electronic devices for biometric authentication
5.2.1.2 High adoption of biometrics in law enforcement and government applications for enhanced security
5.2.1.3 Effective implementation of biometric time and attendance systems for calculating employee productivity and work hours
5.2.1.4 Rise in number of identity threats leading to emergence of fingerprint technologies
FIGURE 20 REPORTED NUMBER OF IDENTITY THEFTS IN 2019
5.2.2 RESTRAINTS
FIGURE 21 IMPACT OF RESTRAINTS ON FINGERPRINT SENSOR MARKET
5.2.2.1 Threats pertaining to biometrics database
5.2.2.2 Increased adoption of substitute technologies, such as face and iris scanning
5.2.3 OPPORTUNITIES
FIGURE 22 IMPACT OF OPPORTUNITIES ON FINGERPRINT SENSOR MARKET
5.2.3.1 Emergence of biometric smartcards in BFSI applications
5.2.3.2 Latest trend of in-display fingerprint sensors in smartphones
5.2.3.3 Increased adoption of IoT-based biometric technology
5.2.4 CHALLENGES

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FIGURE 23 IMPACT OF CHALLENGES ON FINGERPRINT SENSOR MARKET
5.2.4.1 Use of facial recognition technology in different applications
5.3 VALUE CHAIN ANALYSIS
FIGURE 24 VALUE CHAIN ANALYSIS: ECOSYSTEM OF FINGERPRINT SENSORS
5.4 ECOSYSTEM
FIGURE 25 FINGERPRINT SENSOR ECOSYSTEM
TABLE 4 ROLE OF COMPANIES IN ECOSYSTEM/VALUE CHAIN
5.5 KEY INDUSTRY TRENDS IN FINGERPRINT SENSOR MARKET
TABLE 5 DEVELOPMENTS IN FINGERPRINT SENSOR MARKET
5.6 TECHNOLOGY ANALYSIS
5.6.1 SMARTPHONES WITH IN-DISPLAY FINGERPRINT SENSORS
TABLE 6 SMARTPHONES FEATURING IN-DISPLAY FINGERPRINT TECHNOLOGY
5.7 TRENDS AND DISRUPTIVE TECHNOLOGIES IMPACTING CLIENT'S BUSINESS
FIGURE 26 REVENUE SHIFT IN FINGERPRINT SENSOR MARKET
5.8 PORTER'S FIVE FORCES ANALYSIS
FIGURE 27 OVERVIEW OF PORTER'S FIVE FORCES ANALYSIS OF FINGERPRINT SENSOR MARKET (2020)
TABLE 7 PORTER'S FIVE FORCES ANALYSIS (2020): BARGAINING POWER OF SUPPLIERS HAD A HIGH IMPACT ON FINGERPRINT SENSOR MARKET
FIGURE 28 FINGERPRINT SENSOR MARKET: PORTER'S FIVE FORCES ANALYSIS (2020)
5.8.1 THREAT OF NEW ENTRANTS
FIGURE 29 THREAT OF NEW ENTRANTS HAD A MEDIUM IMPACT IN 2020
5.8.2 THREAT OF SUBSTITUTES
FIGURE 30 THREAT OF SUBSTITUTES HAD LOW IMPACT IN 2020
5.8.3 BARGAINING POWER OF SUPPLIERS
FIGURE 31 BARGAINING POWER OF SUPPLIERS HAD HIGH IMPACT IN 2020
5.8.4 BARGAINING POWER OF BUYERS
FIGURE 32 BARGAINING POWER OF BUYERS HAD MEDIUM IMPACT IN 2020
5.8.5 COMPETITIVE RIVALRY
FIGURE 33 COMPETITIVE RIVALRY HAD MEDIUM IMPACT IN 2020
5.9 USE CASE ANALYSIS
5.9.1 HYUNDAI MOTOR COMPANY OFFERED WORLD'S FIRST SMART FINGERPRINT TECHNOLOGY TO UNLOCK DOORS AND START VEHICLES
5.9.2 THE ROYAL BANK OF SCOTLAND PILOTED CARDS THAT USE FINGERPRINTS TO AUTHENTICATE TRANSACTIONS WORTH MORE THAN EURO 30
5.9.3 WORKPLACE BIOMETRICS
5.9.4 COCA-COLA USES BIOMETRIC FINGERPRINT SYSTEMS TO TRACK

ACTIVITIES OF INDEPENDENT TRUCK DRIVERS ENTERING CERTAIN CANNING SITES
5.9.5 USE OF BIOMETRICS IN US MILITARY
5.10 PRICING ANALYSIS
FIGURE 34 AVERAGE SELLING PRICE ANALYSIS OF FINGERPRINT SENSOR, BY DEVICE TYPE
5.11 PATENT ANALYSIS
TABLE 8 NOTICEABLE PATENTS OF FINGERPRINT SENSORS
5.12 TRADE ANALYSIS
TABLE 9 IMPORT DATA OF UNITS FOR AUTOMATIC DATA-PROCESSING MACHINES, WHETHER OR NOT CONTAINING STORAGE UNITS IN SAME HOUSING, BY COUNTRY, 2016–2020 (USD MILLION)
FIGURE 35 IMPORT DATA FOR HS CODE 847160 FOR TOP FIVE COUNTRIES IN FINGERPRINT SENSOR MARKET, 2016–2020 (USD MILLION)
TABLE 10 EXPORT DATA OF UNITS FOR AUTOMATIC DATA-PROCESSING MACHINES, WHETHER OR NOT CONTAINING STORAGE UNITS IN SAME HOUSING, BY COUNTRY, 2016–2020 (USD MILLION)
FIGURE 36 EXPORT DATA FOR HS CODE 847160 FOR TOP FIVE COUNTRIES IN FINGERPRINT SENSOR MARKET, 2016–2020 (USD MILLION)
5.13 TARIFF AND REGULATIONS

6 FINGERPRINT SENSOR MARKET, BY TECHNOLOGY

6.1 INTRODUCTION
TABLE 11 FINGERPRINT SENSOR MARKET, IN TERMS OF VALUE (USD MILLION) AND VOLUME (MILLION UNITS), 2018–2020
TABLE 12 FINGERPRINT SENSOR MARKET, IN TERMS OF VALUE (USD MILLION) AND VOLUME (MILLION UNITS), 2021–2026
FIGURE 37 CAPACITIVE TECHNOLOGY TO LEAD FINGERPRINT SENSOR MARKET, IN TERMS OF SIZE, DURING FORECAST PERIOD
TABLE 13 FINGERPRINT SENSOR MARKET, BY TECHNOLOGY, 2018–2020 (USD MILLION)
TABLE 14 FINGERPRINT SENSOR MARKET, BY TECHNOLOGY, 2021–2026 (USD MILLION)
6.2 CAPACITIVE
6.2.1 CAPACITIVE SENSORS TO CONTINUE TO HOLD LARGEST MARKET SHARE UNTIL 2026
TABLE 15 CAPACITIVE FINGERPRINT SENSOR MARKET, BY END-USE APPLICATION, 2018–2020 (USD MILLION)

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TABLE 16 CAPACITIVE FINGERPRINT SENSOR MARKET, BY END-USE APPLICATION, 2021–2026 (USD MILLION)
TABLE 17 CAPACITIVE FINGERPRINT SENSOR MARKET, BY REGION, 2018–2020 (USD MILLION)
TABLE 18 CAPACITIVE FINGERPRINT SENSOR MARKET, BY REGION, 2021–2026 (USD MILLION)
6.3 OPTICAL
6.3.1 OPTICAL SENSOR MARKET TO WITNESS HIGHEST GROWTH RATE OWING TO RISE IN ADOPTION OF OPTICAL IN-DISPLAY FINGERPRINT SENSORS BY SMARTPHONE MANUFACTURERS
TABLE 19 OPTICAL FINGERPRINT SENSOR MARKET, BY END-USE APPLICATION, 2018–2020 (USD MILLION)
TABLE 20 OPTICAL FINGERPRINT SENSOR MARKET, BY END-USE APPLICATION, 2021–2026 (USD MILLION)
TABLE 21 OPTICAL FINGERPRINT SENSOR MARKET, BY REGION, 2018–2020 (USD MILLION)
TABLE 22 OPTICAL FINGERPRINT SENSOR MARKET, BY REGION, 2021–2026 (USD MILLION)
6.4 THERMAL
6.4.1 USE OF SENSORS IN BIOMETRIC SMARTCARDS TO CREATE GROWTH OPPORTUNITIES FOR THERMAL SENSOR MARKET
TABLE 23 THERMAL FINGERPRINT SENSOR MARKET, BY END-USE APPLICATION, 2018–2020 (USD MILLION)
TABLE 24 THERMAL FINGERPRINT SENSOR MARKET, BY END-USE APPLICATION, 2021–2026 (USD MILLION)
TABLE 25 THERMAL FINGERPRINT SENSOR MARKET, BY REGION, 2018–2020 (USD MILLION)
TABLE 26 THERMAL FINGERPRINT SENSOR MARKET, BY REGION, 2021–2026 (USD MILLION)
6.5 ULTRASONIC
6.5.1 ABILITY OF ULTRASONIC SENSORS TO CAPTURE FINE DETAILS TO CREATE GROWTH OPPORTUNITIES
TABLE 27 ULTRASONIC FINGERPRINT SENSOR MARKET, BY END-USE APPLICATION, 2018–2020 (USD MILLION)
TABLE 28 ULTRASONIC FINGERPRINT SENSOR MARKET, BY END-USE APPLICATION, 2021–2026 (USD MILLION)
TABLE 29 ULTRASONIC FINGERPRINT SENSOR MARKET, BY REGION, 2018–2020 (USD MILLION)
TABLE 30 ULTRASONIC FINGERPRINT SENSOR MARKET, BY REGION, 2021–2026

+44 20 8123 2220
info@marketpublishers.com

(USD MILLION)

7 FINGERPRINT SENSOR MARKET, BY SENSOR TECHNOLOGY

7.1 INTRODUCTION
FIGURE 38 2D SENSOR TECHNOLOGY TO DOMINATE FINGERPRINT SENSOR MARKET, IN TERMS OF SIZE, DURING FORECAST PERIOD
TABLE 31 FINGERPRINT SENSOR MARKET, BY SENSOR TECHNOLOGY, 2018–2020 (USD MILLION)
TABLE 32 FINGERPRINT SENSOR MARKET, BY SENSOR TECHNOLOGY, 2021–2026 (USD MILLION)
7.2 2D
7.2.1 LOW COST OF 2D SENSORS MAKES THEM A PREFERRED CHOICE FOR OEMS
7.3 3D
7.3.1 SECURITY OF ELECTRONIC DEVICES CREATES DEMAND FOR

3D FINGERPRINT SENSORS

8 FINGERPRINT SENSOR MARKET, BY TYPE

8.1 INTRODUCTION
FIGURE 39 AREA AND TOUCH SENSORS TO DOMINATE FINGERPRINT SENSOR MARKET DURING FORECAST PERIOD
TABLE 33 FINGERPRINT SENSOR MARKET, BY TYPE, 2018–2020 (USD MILLION)
TABLE 34 FINGERPRINT SENSOR MARKET, BY TYPE, 2021–2026 (USD MILLION)
8.2 AREA AND TOUCH SENSORS
8.2.1 TECHNOLOGICAL ADVANCES IN TOUCH SENSORS ARE LIKELY TO SPUR THEIR DEMAND IN FINGERPRINT SENSOR MARKET
8.3 SWIPE SENSORS
8.3.1 NEED TO ENSURE SECURITY OF ELECTRONIC DEVICES CREATES DEMAND FOR FINGERPRINT SENSORS

9 DIFFERENT MATERIALS USED IN FINGERPRINT SENSORS

9.1 INTRODUCTION
9.2 PIEZOELECTRIC MATERIALS (QUARTZ)
9.3 PYROELECTRIC MATERIALS (LITHIUM TANTALATE)

+44 20 8123 2220
info@marketpublishers.com

9.4 ADHESIVES
9.5 COATING MATERIALS

10 VARIOUS PRODUCTS IN WHICH FINGERPRINT SENSORS ARE USED

10.1 INTRODUCTION
10.2 AUTHENTICATION SYSTEMS IN SMART DEVICES AND WEARABLES
10.3 ATTENDANCE RECORDING SYSTEMS
10.4 ACCESS CONTROL SYSTEMS
  10.4.1 BIOMETRICS SYSTEMS
  10.4.2 DIGITAL LOCKS
10.5 BIOMETRIC SMARTCARDS
  10.5.1 FINANCIAL CARDS
  10.5.2 ID CARDS
10.6 VEHICLES
10.7 OTHERS

11 FINGERPRINT SENSOR MARKET, BY END-USE APPLICATION

11.1 INTRODUCTION
FIGURE 40 CONSUMER ELECTRONICS TO ACCOUNT FOR LARGEST SIZE OF FINGERPRINT SENSOR MARKET SHARE BY 2026
TABLE 35 FINGERPRINT SENSOR MARKET, BY END-USE APPLICATION, 2018–2020 (USD MILLION)
TABLE 36 FINGERPRINT SENSOR MARKET, BY END-USE APPLICATION, 2021–2026 (USD MILLION)
11.2 CONSUMER ELECTRONICS
  11.2.1 SMARTPHONES
    11.2.1.1 Increasing popularity of fingerprint authentication in smartphones to surge demand for fingerprint sensors in consumer electronics applications
  11.2.2 LAPTOPS/NOTEBOOKS/PERSONAL COMPUTERS
    11.2.2.1 Rising use of fingerprint technology in laptops to ensure security expected to boost market growth
  11.2.3 WEARABLE DEVICES
    11.2.3.1 Growing efforts of leading OEMs to offer wearables with dynamic features to create growth opportunities for fingerprint sensors
  11.2.4 USB FLASH DRIVES
    11.2.4.1 Security concerns regarding data stored in portable storage devices to boost

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adoption of fingerprint sensors
11.2.5 OTHERS
TABLE 37 FINGERPRINT SENSOR MARKET FOR CONSUMER ELECTRONICS, BY TECHNOLOGY, 2018–2020 (USD MILLION)
TABLE 38 FINGERPRINT SENSOR MARKET FOR CONSUMER ELECTRONICS, BY TECHNOLOGY, 2021–2026 (USD MILLION)
TABLE 39 CAPACITIVE FINGERPRINT SENSOR MARKET FOR CONSUMER ELECTRONICS, BY REGION, 2018–2020 (USD MILLION)
TABLE 40 CAPACITIVE FINGERPRINT SENSOR MARKET FOR CONSUMER ELECTRONICS, BY REGION, 2021–2026 (USD MILLION)
TABLE 41 OPTICAL FINGERPRINT SENSOR MARKET FOR CONSUMER ELECTRONICS, BY REGION, 2018–2020 (USD MILLION)
TABLE 42 OPTICAL FINGERPRINT SENSOR MARKET FOR CONSUMER ELECTRONICS, BY REGION, 2021–2026 (USD MILLION)
TABLE 43 THERMAL FINGERPRINT SENSOR MARKET FOR CONSUMER ELECTRONICS, BY REGION, 2018–2020 (USD MILLION)
TABLE 44 THERMAL FINGERPRINT SENSOR MARKET FOR CONSUMER ELECTRONICS, BY REGION, 2021–2026 (USD MILLION)
TABLE 45 ULTRASONIC FINGERPRINT SENSOR MARKET FOR CONSUMER ELECTRONICS, BY REGION, 2018–2020 (USD MILLION)
TABLE 46 ULTRASONIC FINGERPRINT SENSOR MARKET FOR CONSUMER ELECTRONICS, BY REGION, 2021–2026 (USD MILLION)
TABLE 47 FINGERPRINT SENSOR MARKET FOR CONSUMER ELECTRONICS, BY REGION, 2018–2020 (USD MILLION)
TABLE 48 FINGERPRINT SENSOR MARKET FOR CONSUMER ELECTRONICS, BY REGION, 2021–2026 (USD MILLION)
11.3 TRAVEL AND IMMIGRATION
11.3.1 SURGING DEPLOYMENT OF BIOMETRIC SYSTEMS AT AIRPORTS TO AUGMENT DEMAND FOR FINGERPRINT SENSORS
TABLE 49 FINGERPRINT SENSOR MARKET FOR TRAVEL AND IMMIGRATION, BY TECHNOLOGY, 2018–2020 (USD MILLION)
TABLE 50 FINGERPRINT SENSOR MARKET FOR TRAVEL AND IMMIGRATION, BY TECHNOLOGY, 2021–2026 (USD MILLION)
TABLE 51 CAPACITIVE FINGERPRINT SENSOR MARKET FOR TRAVEL AND IMMIGRATION, BY REGION, 2018–2020 (USD MILLION)
TABLE 52 CAPACITIVE FINGERPRINT SENSOR MARKET FOR TRAVEL AND IMMIGRATION, BY REGION, 2021–2026 (USD MILLION)
TABLE 53 OPTICAL FINGERPRINT SENSOR MARKET FOR TRAVEL AND IMMIGRATION, BY REGION, 2018–2020 (USD MILLION)

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TABLE 54 OPTICAL FINGERPRINT SENSOR MARKET FOR TRAVEL AND IMMIGRATION, BY REGION, 2021–2026 (USD MILLION)
TABLE 55 THERMAL FINGERPRINT SENSOR MARKET FOR TRAVEL AND IMMIGRATION, BY REGION, 2018–2020 (USD MILLION)
TABLE 56 THERMAL FINGERPRINT SENSOR MARKET FOR TRAVEL AND IMMIGRATION, BY REGION, 2021–2026 (USD MILLION)
TABLE 57 ULTRASONIC FINGERPRINT SENSOR MARKET FOR TRAVEL AND IMMIGRATION, BY REGION, 2018–2020 (USD MILLION)
TABLE 58 ULTRASONIC FINGERPRINT SENSOR MARKET FOR TRAVEL AND IMMIGRATION, BY REGION, 2021–2026 (USD MILLION)
TABLE 59 FINGERPRINT SENSOR MARKET FOR TRAVEL AND IMMIGRATION, BY REGION, 2018–2020 (USD MILLION)
TABLE 60 FINGERPRINT SENSOR MARKET FOR TRAVEL AND IMMIGRATION, BY REGION, 2021–2026 (USD MILLION)
11.4 GOVERNMENT AND LAW ENFORCEMENT
11.4.1 GOVERNMENT INITIATIVES TO CREATE DIGITAL IDENTITY FOR ITS CITIZENS TO PROVIDE GROWTH OPPORTUNITIES FOR FINGERPRINT SENSOR MARKET PLAYERS
TABLE 61 FINGERPRINT SENSOR MARKET FOR GOVERNMENT AND LAW ENFORCEMENT, BY TECHNOLOGY, 2018–2020 (USD MILLION)
TABLE 62 FINGERPRINT SENSOR MARKET FOR GOVERNMENT AND LAW ENFORCEMENT, BY TECHNOLOGY, 2021–2026 (USD MILLION)
TABLE 63 CAPACITIVE FINGERPRINT SENSOR MARKET FOR GOVERNMENT AND
LAW ENFORCEMENT, BY REGION, 2018–2020 (USD MILLION)
TABLE 64 CAPACITIVE FINGERPRINT SENSOR MARKET FOR GOVERNMENT AND
LAW ENFORCEMENT, BY REGION, 2021–2026 (USD MILLION)
TABLE 65 OPTICAL FINGERPRINT SENSOR MARKET FOR GOVERNMENT AND LAW ENFORCEMENT, BY REGION, 2018–2020 (USD MILLION)
TABLE 66 OPTICAL FINGERPRINT SENSOR MARKET FOR GOVERNMENT AND LAW ENFORCEMENT, BY REGION, 2021–2026 (USD MILLION)
TABLE 67 THERMAL FINGERPRINT SENSOR MARKET FOR GOVERNMENT AND LAW ENFORCEMENT, BY REGION, 2018–2020 (USD MILLION)
TABLE 68 THERMAL FINGERPRINT SENSOR MARKET FOR GOVERNMENT AND LAW ENFORCEMENT, BY REGION, 2021–2026 (USD MILLION)
TABLE 69 ULTRASONIC FINGERPRINT SENSOR MARKET FOR GOVERNMENT AND
LAW ENFORCEMENT, BY REGION, 2018–2020 (USD MILLION)

TABLE 70 ULTRASONIC FINGERPRINT SENSOR MARKET FOR GOVERNMENT AND
LAW ENFORCEMENT, BY REGION, 2021–2026 (USD MILLION)
TABLE 71 FINGERPRINT SENSOR MARKET FOR GOVERNMENT AND LAW ENFORCEMENT, BY REGION, 2018–2020 (USD MILLION)
TABLE 72 FINGERPRINT SENSOR MARKET FOR GOVERNMENT AND LAW ENFORCEMENT, BY REGION, 2021–2026 (USD MILLION)
11.5 MILITARY, DEFENSE, AND AEROSPACE
11.5.1 NORTH AMERICA TO LEAD FINGERPRINT SENSOR MARKET FOR MILITARY, DEFENSE, AND AEROSPACE APPLICATIONS
TABLE 73 FINGERPRINT SENSOR MARKET FOR MILITARY, DEFENSE, AND AEROSPACE, BY TECHNOLOGY, 2018–2020 (USD MILLION)
TABLE 74 FINGERPRINT SENSOR MARKET FOR MILITARY, DEFENSE, AND AEROSPACE, BY TECHNOLOGY, 2021–2026 (USD MILLION)
TABLE 75 CAPACITIVE FINGERPRINT SENSOR MARKET FOR MILITARY, DEFENSE, AND AEROSPACE, BY REGION, 2018–2020 (USD MILLION)
TABLE 76 CAPACITIVE FINGERPRINT SENSOR MARKET FOR MILITARY, DEFENSE, AND AEROSPACE, BY REGION, 2021–2026 (USD MILLION)
TABLE 77 OPTICAL FINGERPRINT SENSOR MARKET FOR MILITARY, DEFENSE, AND AEROSPACE, BY REGION, 2018–2020 (USD MILLION)
TABLE 78 OPTICAL FINGERPRINT SENSOR MARKET FOR MILITARY, DEFENSE, AND AEROSPACE, BY REGION, 2021–2026 (USD MILLION)
TABLE 79 THERMAL FINGERPRINT SENSOR MARKET FOR MILITARY, DEFENSE, AND AEROSPACE, BY REGION, 2018–2020 (USD MILLION)
TABLE 80 THERMAL FINGERPRINT SENSOR MARKET FOR MILITARY, DEFENSE, AND AEROSPACE, BY REGION, 2021–2026 (USD MILLION)
TABLE 81 ULTRASONIC FINGERPRINT SENSOR MARKET FOR MILITARY, DEFENSE, AND AEROSPACE, BY REGION, 2018–2020 (USD MILLION)
TABLE 82 ULTRASONIC FINGERPRINT SENSOR MARKET FOR MILITARY, DEFENSE, AND AEROSPACE, BY REGION, 2021–2026 (USD MILLION)
TABLE 83 FINGERPRINT SENSOR MARKET FOR MILITARY, DEFENSE, AND AEROSPACE, BY REGION, 2018–2020 (USD MILLION)
TABLE 84 FINGERPRINT SENSOR MARKET FOR MILITARY, DEFENSE, AND AEROSPACE, BY REGION, 2021–2026 (USD MILLION)
11.6 BANKING & FINANCE
11.6.1 ADOPTION OF FINGERPRINT SCANNERS AS ALTERNATIVES TO PIN-TO-AUTHENTICATE PAYMENT CARDS WOULD SURGE FINGERPRINT SENSOR MARKET GROWTH FOR FINANCIAL APPLICATIONS
TABLE 85 FINGERPRINT SENSOR MARKET FOR BANKING AND FINANCE, BY

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TECHNOLOGY, 2018–2020 (USD MILLION)
TABLE 86 FINGERPRINT SENSOR MARKET FOR BANKING AND FINANCE, BY TECHNOLOGY, 2021–2026 (USD MILLION)
TABLE 87 CAPACITIVE FINGERPRINT SENSOR MARKET FOR BANKING AND FINANCE, BY REGION, 2018–2020 (USD MILLION)
TABLE 88 CAPACITIVE FINGERPRINT SENSOR MARKET FOR BANKING AND FINANCE, BY REGION, 2021–2026 (USD MILLION)
TABLE 89 OPTICAL FINGERPRINT SENSOR MARKET FOR BANKING AND FINANCE, BY REGION, 2018–2020 (USD MILLION)
TABLE 90 OPTICAL FINGERPRINT SENSOR MARKET FOR BANKING AND FINANCE, BY REGION, 2021–2026 (USD MILLION)
TABLE 91 THERMAL FINGERPRINT SENSOR MARKET FOR BANKING AND FINANCE, BY REGION, 2018–2020 (USD MILLION)
TABLE 92 THERMAL FINGERPRINT SENSOR MARKET FOR BANKING AND FINANCE, BY REGION, 2021–2026 (USD MILLION)
TABLE 93 ULTRASONIC FINGERPRINT SENSOR MARKET FOR BANKING AND FINANCE, BY REGION, 2018–2020 (USD MILLION)
TABLE 94 ULTRASONIC FINGERPRINT SENSOR MARKET FOR BANKING AND FINANCE, BY REGION, 2021–2026 (USD MILLION)
TABLE 95 FINGERPRINT SENSOR MARKET FOR BANKING AND FINANCE, BY REGION, 2018–2020 (USD MILLION)
TABLE 96 FINGERPRINT SENSOR MARKET FOR BANKING AND FINANCE, BY REGION, 2021–2026 (USD MILLION)
11.7 HEALTHCARE
11.7.1 NEED TO PROTECT IDENTITY AND CRITICAL INFORMATION ABOUT PATIENTS TO SURGE DEMAND FOR FINGERPRINT SENSOR-BASED BIOMETRIC SYSTEMS
TABLE 97 FINGERPRINT SENSOR MARKET FOR HEALTHCARE, BY TECHNOLOGY, 2018–2020 (USD MILLION)
TABLE 98 FINGERPRINT SENSOR MARKET FOR HEALTHCARE, BY TECHNOLOGY, 2021–2026 (USD MILLION)
TABLE 99 CAPACITIVE FINGERPRINT SENSOR MARKET FOR HEALTHCARE, BY REGION, 2018–2020 (USD MILLION)
TABLE 100 CAPACITIVE FINGERPRINT SENSOR MARKET FOR HEALTHCARE, BY REGION, 2021–2026 (USD MILLION)
TABLE 101 OPTICAL FINGERPRINT SENSOR MARKET FOR HEALTHCARE, BY REGION, 2018–2020 (USD MILLION)
TABLE 102 OPTICAL FINGERPRINT SENSOR MARKET FOR HEALTHCARE, BY REGION, 2021–2026 (USD MILLION)

TABLE 103 THERMAL FINGERPRINT SENSOR MARKET FOR HEALTHCARE, BY REGION, 2018–2020 (USD MILLION)
TABLE 104 THERMAL FINGERPRINT SENSOR MARKET FOR HEALTHCARE, BY REGION, 2021–2026 (USD MILLION)
TABLE 105 ULTRASONIC FINGERPRINT SENSOR MARKET FOR HEALTHCARE, BY REGION, 2018–2020 (USD MILLION)
TABLE 106 ULTRASONIC FINGERPRINT SENSOR MARKET FOR HEALTHCARE, BY REGION, 2021–2026 (USD MILLION)
TABLE 107 FINGERPRINT SENSOR MARKET FOR HEALTHCARE, BY REGION, 2018–2020 (USD MILLION)
TABLE 108 FINGERPRINT SENSOR MARKET FOR HEALTHCARE, BY REGION, 2021–2026 (USD MILLION)
11.8 SMART HOMES
11.8.1 DEVELOPMENT OF SMART LOCKS BY DIFFERENT ORIGINAL EQUIPMENT MANUFACTURERS OFFERING GROWTH OPPORTUNITIES FOR MARKET PLAYERS
TABLE 109 FINGERPRINT SENSOR MARKET FOR SMART HOMES, BY TECHNOLOGY, 2018–2020 (USD MILLION)
TABLE 110 FINGERPRINT SENSOR MARKET FOR SMART HOMES, BY TECHNOLOGY, 2021–2026 (USD MILLION)
TABLE 111 CAPACITIVE FINGERPRINT SENSOR MARKET FOR SMART HOMES, BY REGION, 2018–2020 (USD MILLION)
TABLE 112 CAPACITIVE FINGERPRINT SENSOR MARKET FOR SMART HOMES, BY REGION, 2021–2026 (USD MILLION)
TABLE 113 OPTICAL FINGERPRINT SENSOR MARKET FOR SMART HOMES, BY REGION, 2018–2020 (USD MILLION)
TABLE 114 OPTICAL FINGERPRINT SENSOR MARKET FOR SMART HOMES, BY REGION, 2021–2026 (USD MILLION)
TABLE 115 THERMAL FINGERPRINT SENSOR MARKET FOR SMART HOMES, BY REGION, 2018–2020 (USD MILLION)
TABLE 116 THERMAL FINGERPRINT SENSOR MARKET FOR SMART HOMES, BY REGION, 2021–2026 (USD MILLION)
TABLE 117 ULTRASONIC FINGERPRINT SENSOR MARKET FOR SMART HOMES, BY REGION, 2018–2020 (USD MILLION)
TABLE 118 ULTRASONIC FINGERPRINT SENSOR MARKET FOR SMART HOMES, BY REGION, 2021–2026 (USD MILLION)
TABLE 119 FINGERPRINT SENSOR MARKET FOR SMART HOMES, BY REGION, 2018–2020 (USD MILLION)
TABLE 120 FINGERPRINT SENSOR MARKET FOR SMART HOMES, BY REGION,

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2021–2026 (USD MILLION)
11.9 COMMERCIAL
11.9.1 ADOPTION OF BIOMETRIC SYSTEMS IN VARIOUS ENTERPRISES AND RETAIL STORES ACCELERATES FINGERPRINT SENSOR MARKET GROWTH
TABLE 121 FINGERPRINT SENSOR MARKET FOR COMMERCIAL, BY TECHNOLOGY, 2018–2020 (USD MILLION)
TABLE 122 FINGERPRINT SENSOR MARKET FOR COMMERCIAL, BY TECHNOLOGY, 2021–2026 (USD MILLION)
TABLE 123 CAPACITIVE FINGERPRINT SENSOR MARKET FOR COMMERCIAL, BY REGION, 2018–2020 (USD MILLION)
TABLE 124 CAPACITIVE FINGERPRINT SENSOR MARKET FOR COMMERCIAL, BY REGION, 2021–2026 (USD MILLION)
TABLE 125 OPTICAL FINGERPRINT SENSOR MARKET FOR COMMERCIAL, BY REGION, 2018–2020 (USD MILLION)
TABLE 126 OPTICAL FINGERPRINT SENSOR MARKET FOR COMMERCIAL, BY REGION, 2021–2026 (USD MILLION)
TABLE 127 THERMAL FINGERPRINT SENSOR MARKET FOR COMMERCIAL, BY REGION, 2018–2020 (USD MILLION)
TABLE 128 THERMAL FINGERPRINT SENSOR MARKET FOR COMMERCIAL, BY REGION, 2021–2026 (USD MILLION)
TABLE 129 ULTRASONIC FINGERPRINT SENSOR MARKET FOR COMMERCIAL, BY REGION, 2018–2020 (USD MILLION)
TABLE 130 ULTRASONIC FINGERPRINT SENSOR MARKET FOR COMMERCIAL, BY REGION, 2021–2026 (USD MILLION)
TABLE 131 FINGERPRINT SENSOR MARKET FOR COMMERCIAL, BY REGION, 2018–2020 (USD MILLION)
TABLE 132 FINGERPRINT SENSOR MARKET FOR COMMERCIAL, BY REGION, 2021–2026 (USD MILLION)
11.10 OTHERS
TABLE 133 FINGERPRINT SENSOR MARKET FOR OTHERS, BY TECHNOLOGY, 2018–2020 (USD MILLION)
TABLE 134 FINGERPRINT SENSOR MARKET FOR OTHERS, BY TECHNOLOGY, 2021–2026 (USD MILLION)
TABLE 135 CAPACITIVE FINGERPRINT SENSOR MARKET FOR OTHERS, BY REGION, 2018–2020 (USD MILLION)
TABLE 136 CAPACITIVE FINGERPRINT SENSOR MARKET FOR OTHERS, BY REGION, 2021–2026 (USD MILLION)
TABLE 137 OPTICAL FINGERPRINT SENSOR MARKET FOR OTHERS, BY REGION, 2018–2020 (USD MILLION)

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TABLE 138 OPTICAL FINGERPRINT SENSOR MARKET FOR OTHERS, BY REGION, 2021–2026 (USD MILLION)
TABLE 139 THERMAL FINGERPRINT SENSOR MARKET FOR OTHERS, BY REGION, 2018–2020 (USD MILLION)
TABLE 140 THERMAL FINGERPRINT SENSOR MARKET FOR OTHERS, BY REGION, 2021–2026 (USD MILLION)
TABLE 141 ULTRASONIC FINGERPRINT SENSOR MARKET FOR OTHERS, BY REGION, 2018–2020 (USD MILLION)
TABLE 142 ULTRASONIC FINGERPRINT SENSOR MARKET FOR OTHERS, BY REGION, 2021–2026 (USD MILLION)
TABLE 143 FINGERPRINT SENSOR MARKET FOR OTHERS, BY REGION, 2018–2020 (USD MILLION)
TABLE 144 FINGERPRINT SENSOR MARKET FOR OTHERS, BY REGION, 2021–2026 (USD MILLION)

12 GEOGRAPHIC ANALYSIS

12.1 INTRODUCTION
FIGURE 41 GEOGRAPHIC SNAPSHOT: FINGERPRINT SENSOR MARKET IN CHINA TO GROW AT HIGHEST CAGR DURING FORECAST PERIOD
FIGURE 42 FINGERPRINT SENSOR MARKET IN APAC TO WITNESS HIGHEST CAGR DURING FORECAST PERIOD
TABLE 145 FINGERPRINT SENSOR MARKET, BY REGION, 2018–2020 (USD MILLION)
TABLE 146 FINGERPRINT SENSOR MARKET, BY REGION, 2021–2026 (USD MILLION)
12.2 NORTH AMERICA
FIGURE 43 NORTH AMERICA: FINGERPRINT SENSOR MARKET SNAPSHOT
TABLE 147 FINGERPRINT SENSOR MARKET IN NORTH AMERICA, BY TECHNOLOGY, 2018–2020 (USD MILLION)
TABLE 148 FINGERPRINT SENSOR MARKET IN NORTH AMERICA, BY TECHNOLOGY, 2021–2026 (USD MILLION)
TABLE 149 FINGERPRINT SENSOR MARKET IN NORTH AMERICA, BY END-USE APPLICATION, 2018–2020 (USD MILLION)
TABLE 150 FINGERPRINT SENSOR MARKET IN NORTH AMERICA, BY END-USE APPLICATION, 2021–2026 (USD MILLION)
TABLE 151 FINGERPRINT SENSOR MARKET IN NORTH AMERICA, BY COUNTRY, 2018–2020 (USD MILLION)
TABLE 152 FINGERPRINT SENSOR MARKET IN NORTH AMERICA, BY COUNTRY,

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2021–2026 (USD MILLION)
TABLE 153 CAPACITIVE FINGERPRINT SENSOR MARKET IN NORTH AMERICA, BY COUNTRY, 2018–2020 (USD MILLION)
TABLE 154 CAPACITIVE FINGERPRINT SENSOR MARKET IN NORTH AMERICA, BY COUNTRY, 2021–2026 (USD MILLION)
TABLE 155 OPTICAL FINGERPRINT SENSOR MARKET IN NORTH AMERICA, BY COUNTRY, 2018–2020 (USD MILLION)
TABLE 156 OPTICAL FINGERPRINT SENSOR MARKET IN NORTH AMERICA, BY COUNTRY, 2021–2026 (USD MILLION)
TABLE 157 THERMAL FINGERPRINT SENSOR MARKET IN NORTH AMERICA, BY COUNTRY, 2018–2020 (USD MILLION)
TABLE 158 THERMAL FINGERPRINT SENSOR MARKET IN NORTH AMERICA, BY COUNTRY, 2021–2026 (USD MILLION)
TABLE 159 ULTRASONIC FINGERPRINT SENSOR MARKET IN NORTH AMERICA, BY COUNTRY, 2018–2020 (USD MILLION)
TABLE 160 ULTRASONIC FINGERPRINT SENSOR MARKET IN NORTH AMERICA, BY COUNTRY, 2021–2026 (USD MILLION)
12.2.1 US
12.2.1.1 Market growth in US is driven by adoption of fingerprint sensors in consumer and banking & finance applications
12.2.2 CANADA
12.2.2.1 Market growth in Canada is subject to government initiatives for border security
12.2.3 MEXICO
12.2.3.1 Use of biometric cards in banking & finance and travel & immigration applications augment Mexican market growth
12.3 EUROPE
TABLE 161 FINGERPRINT SENSOR MARKET IN EUROPE, BY TECHNOLOGY, 2018–2020 (USD MILLION)
TABLE 162 FINGERPRINT SENSOR MARKET IN EUROPE, BY TECHNOLOGY, 2021–2026 (USD MILLION)
TABLE 163 FINGERPRINT SENSOR MARKET IN EUROPE, BY END-USE APPLICATION, 2018–2020 (USD MILLION)
TABLE 164 FINGERPRINT SENSOR MARKET IN EUROPE, BY END-USE APPLICATION, 2021–2026 (USD MILLION)
TABLE 165 FINGERPRINT SENSOR MARKET IN EUROPE, BY COUNTRY, 2018–2020 (USD MILLION)
TABLE 166 FINGERPRINT SENSOR MARKET IN EUROPE, BY COUNTRY, 2021–2026 (USD MILLION)

TABLE 167 CAPACITIVE FINGERPRINT SENSOR MARKET IN EUROPE, BY COUNTRY, 2018–2020 (USD MILLION)
TABLE 168 CAPACITIVE FINGERPRINT SENSOR MARKET IN EUROPE, BY COUNTRY, 2021–2026 (USD MILLION)
TABLE 169 OPTICAL FINGERPRINT SENSOR MARKET IN EUROPE, BY COUNTRY, 2018–2020 (USD MILLION)
TABLE 170 OPTICAL FINGERPRINT SENSOR MARKET IN EUROPE, BY COUNTRY, 2021–2026 (USD MILLION)
TABLE 171 THERMAL FINGERPRINT SENSOR MARKET IN EUROPE, BY COUNTRY, 2018–2020 (USD MILLION)
TABLE 172 THERMAL FINGERPRINT SENSOR MARKET IN EUROPE, BY COUNTRY, 2021–2026 (USD MILLION)
TABLE 173 ULTRASONIC FINGERPRINT SENSOR MARKET IN EUROPE, BY COUNTRY, 2018–2020 (USD MILLION)
TABLE 174 ULTRASONIC FINGERPRINT SENSOR MARKET IN EUROPE, BY COUNTRY, 2021–2026 (USD MILLION)
12.3.1 GERMANY
12.3.1.1 Germany holds largest share of European market in 2021
12.3.2 UK
12.3.2.1 Need for fingerprint-based biometric solutions in law enforcement agencies accelerates fingerprint sensor market growth
12.3.3 FRANCE
12.3.3.1 Government and law enforcement and banking & finance applications to play important role in growth of French market
12.3.4 ITALY
12.3.4.1 eID card program propels Italian market growth
12.3.5 REST OF EUROPE
12.4 APAC
FIGURE 44 APAC: FINGERPRINT SENSOR MARKET SNAPSHOT
TABLE 175 FINGERPRINT SENSOR MARKET IN APAC, BY TECHNOLOGY, 2018–2020 (USD MILLION)
TABLE 176 FINGERPRINT SENSOR MARKET IN APAC, BY TECHNOLOGY, 2021–2026 (USD MILLION)
TABLE 177 FINGERPRINT SENSOR MARKET IN APAC, BY END-USE APPLICATION, 2018–2020 (USD MILLION)
TABLE 178 FINGERPRINT SENSOR MARKET IN APAC, BY END-USE APPLICATION, 2021–2026 (USD MILLION)
TABLE 179 FINGERPRINT SENSOR MARKET IN APAC, BY COUNTRY, 2018–2020 (USD MILLION)

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TABLE 180 FINGERPRINT SENSOR MARKET IN APAC, BY COUNTRY, 2021–2026 (USD MILLION)
TABLE 181 CAPACITIVE FINGERPRINT SENSOR MARKET IN APAC, BY COUNTRY, 2018–2020 (USD MILLION)
TABLE 182 CAPACITIVE FINGERPRINT SENSOR MARKET IN APAC, BY COUNTRY, 2021–2026 (USD MILLION)
TABLE 183 OPTICAL FINGERPRINT SENSOR MARKET IN APAC, BY COUNTRY, 2018–2020 (USD MILLION)
TABLE 184 OPTICAL FINGERPRINT SENSOR MARKET IN APAC, BY COUNTRY, 2021–2026 (USD MILLION)
TABLE 185 THERMAL FINGERPRINT SENSOR MARKET IN APAC, BY COUNTRY, 2018–2020 (USD MILLION)
TABLE 186 THERMAL FINGERPRINT SENSOR MARKET IN APAC, BY COUNTRY, 2021–2026 (USD MILLION)
TABLE 187 ULTRASONIC FINGERPRINT SENSOR MARKET IN APAC, BY COUNTRY, 2018–2020 (USD MILLION)
TABLE 188 ULTRASONIC FINGERPRINT SENSOR MARKET IN APAC, BY COUNTRY, 2021–2026 (USD MILLION)
12.4.1 CHINA
12.4.1.1 Presence of leading smartphone manufacturers to boost fingerprint sensor market growth in China
12.4.2 JAPAN
12.4.2.1 Cashless initiatives to create opportunities for fingerprint technology-based biometrics cards in Japan
12.4.3 INDIA
12.4.3.1 Higher adoption of fingerprint scanners under Aadhaar initiative to surge demand for fingerprint sensors
12.4.4 SOUTH KOREA
12.4.4.1 Efforts by leading OEMs to offer advanced technology-based consumer devices to accelerate demand for fingerprint sensors
12.4.5 REST OF APAC
12.5 ROW
TABLE 189 FINGERPRINT SENSOR MARKET IN ROW, BY TECHNOLOGY, 2018–2020 (USD MILLION)
TABLE 190 FINGERPRINT SENSOR MARKET IN ROW, BY TECHNOLOGY, 2021–2026 (USD MILLION)
TABLE 191 FINGERPRINT SENSOR MARKET IN ROW, BY END-USE APPLICATION, 2018–2020 (USD MILLION)
TABLE 192 FINGERPRINT SENSOR MARKET IN ROW, BY END-USE APPLICATION,

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2021–2026 (USD MILLION)
TABLE 193 FINGERPRINT SENSOR MARKET IN ROW, BY REGION, 2018–2020 (USD MILLION)
TABLE 194 FINGERPRINT SENSOR MARKET IN ROW, BY REGION, 2021–2026 (USD MILLION)
TABLE 195 CAPACITIVE FINGERPRINT SENSOR MARKET IN ROW, BY REGION, 2018–2020 (USD MILLION)
TABLE 196 CAPACITIVE FINGERPRINT SENSOR MARKET IN ROW, BY REGION, 2021–2026 (USD MILLION)
TABLE 197 OPTICAL FINGERPRINT SENSOR MARKET IN ROW, BY REGION, 2018–2020 (USD MILLION)
TABLE 198 OPTICAL FINGERPRINT SENSOR MARKET IN ROW, BY REGION, 2021–2026 (USD MILLION)
TABLE 199 THERMAL FINGERPRINT SENSOR MARKET IN ROW, BY REGION, 2018–2020 (USD MILLION)
TABLE 200 THERMAL FINGERPRINT SENSOR MARKET IN ROW, BY REGION, 2021–2026 (USD MILLION)
TABLE 201 ULTRASONIC FINGERPRINT SENSOR MARKET IN ROW, BY REGION, 2018–2020 (USD MILLION)
TABLE 202 ULTRASONIC FINGERPRINT SENSOR MARKET IN ROW, BY REGION, 2021–2026 (USD MILLION)
12.5.1 SOUTH AMERICA
12.5.1.1 Banking & finance applications to provide attractive growth opportunities for South American market
12.5.2 MIDDLE EAST AND AFRICA
12.5.2.1 Collaboration of banks with technology providers to adopt biometric smartcards would surge demand for fingerprint sensors

13 COMPETITIVE LANDSCAPE

13.1 OVERVIEW
13.2 KEY PLAYER STRATEGIES/RIGHT TO WIN
13.2.1 OVERVIEW OF STRATEGIES DEPLOYED BY FINGERPRINT SENSOR ORIGINAL EQUIPMENT MANUFACTURERS (OEMS)
13.3 REVENUE ANALYSIS FOR FINGERPRINT SENSOR MARKET, 2020
TABLE 203 TOP FIVE PLAYERS IN FINGERPRINT SENSOR MARKET, 2016–2020 (USD BILLION)
FIGURE 45 5-YEAR REVENUE ANALYSIS OF TOP 5 PLAYERS, 2016–2020
13.4 MARKET SHARE ANALYSIS, 2020

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FIGURE 46 SHARE OF MAJOR PLAYERS IN FINGERPRINT SENSOR MARKET, 2020
TABLE 204 FINGERPRINT SENSOR MARKET: DEGREE OF COMPETITION
13.5 RANKING OF KEY PLAYERS IN FINGERPRINT SENSOR MARKET
FIGURE 47 FINGERPRINT SENSOR MARKET: RANKING OF KEY PLAYERS, 2020
13.6 COMPANY EVALUATION QUADRANT
13.6.1 STAR
13.6.2 PERVASIVE
13.6.3 EMERGING LEADER
13.6.4 PARTICIPANT
FIGURE 48 FINGERPRINT SENSOR MARKET (GLOBAL) COMPANY EVALUATION QUADRANT, 2020
13.7 START-UP/SME EVALUATION MATRIX
TABLE 205 LIST OF START-UP COMPANIES IN FINGERPRINT SENSOR MARKET
13.7.1 PROGRESSIVE COMPANY
13.7.2 RESPONSIVE COMPANY
13.7.3 DYNAMIC COMPANY
13.7.4 STARTING BLOCK
FIGURE 49 FINGERPRINT SENSORS MARKET: STARTUP/SME EVALUATION MATRIX, 2020
13.8 FINGERPRINT SENSOR MARKET: COMPANY FOOTPRINT
TABLE 206 FOOTPRINT OF COMPANIES
TABLE 207 APPLICATION FOOTPRINT OF COMPANIES
TABLE 208 PRODUCT FOOTPRINT OF COMPANIES
TABLE 209 REGIONAL FOOTPRINT OF COMPANIES
13.9 COMPETITIVE SCENARIO AND TRENDS
FIGURE 50 MARKET EVOLUTION FRAMEWORK: PRODUCT LAUNCHES AND DEVELOPMENTS, COLLABORATIONS, AND ACQUISITIONS WERE MOSTLY ADOPTED STRATEGIES BY MARKET PLAYERS FROM 2017 TO 2021
13.9.1 NEW PRODUCT LAUNCHES AND DEVELOPMENTS
TABLE 210 FINGERPRINT SENSOR MARKET: PRODUCT LAUNCHES AND DEVELOPMENTS, 2019–2021
13.9.2 DEALS
TABLE 211 FINGERPRINT SENSOR MARKET: DEALS, 2019–2021

14 COMPANY PROFILES

14.1 KEY PLAYERS
(Business Overview, Products/ Solutions Offered, Product Launches and

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Developments, Deals, Others, and MnM View)*
14.1.1 GOODIX
TABLE 212 GOODIX: BUSINESS OVERVIEW
FIGURE 51 GOODIX: COMPANY SNAPSHOT
14.1.2 FINGERPRINTS
TABLE 213 FINGERPRINTS: BUSINESS OVERVIEW
FIGURE 52 FINGERPRINTS: COMPANY SNAPSHOT
14.1.3 SYNAPTICS
TABLE 214 SYNAPTICS: BUSINESS OVERVIEW
FIGURE 53 SYNAPTICS: COMPANY SNAPSHOT
14.1.4 APPLE INC.
TABLE 215 APPLE INC.: BUSINESS OVERVIEW
FIGURE 54 APPLE INC.: COMPANY SNAPSHOT
14.1.5 EGIS TECHNOLOGY
TABLE 216 EGIS: BUSINESS OVERVIEW
FIGURE 55 EGIS: COMPANY SNAPSHOT
14.1.6 CRUCIALTEC
TABLE 217 CRUCIALTEC: BUSINESS OVERVIEW
FIGURE 56 CRUCIALTEC: COMPANY SNAPSHOT
14.1.7 NEXT BIOMETRICS
TABLE 218 NEXT BIOMETRICS: BUSINESS OVERVIEW
FIGURE 57 NEXT BIOMETRICS: COMPANY SNAPSHOT
14.1.8 NOVATEK MICROELECTRONICS
TABLE 219 NOVATEK MICROELECTRONICS: BUSINESS OVERVIEW
FIGURE 58 NOVATEK MICROELECTRONICS: COMPANY SNAPSHOT
14.1.9 QUALCOMM
TABLE 220 QUALCOMM: BUSINESS OVERVIEW
FIGURE 59 QUALCOMM: COMPANY SNAPSHOT
14.1.10 Q TECHNOLOGY
TABLE 221 Q TECHNOLOGY: BUSINESS OVERVIEW
FIGURE 60 Q TECHNOLOGY: COMPANY SNAPSHOT
* Business Overview, Products/ Solutions Offered, Product Launches and Developments, Deals, Others, and MnM View might not be captured in case of unlisted companies.
14.2 OTHER COMPANIES
14.2.1 CMOS SENSOR INC.
14.2.2 ELAN MICROELECTRONICS
14.2.3 FOCALTECH
14.2.4 ID3 TECHNOLOGIES

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14.2.5 IDEX BIOMETRICS
14.2.6 JAPAN DISPLAY INC.
14.2.7 OXI TECHNOLOGY
14.2.8 SONAVATION INC.
14.2.9 TOUCH BIOMETRIX
14.2.10 VKANSEE

15 APPENDIX

15.1 DISCUSSION GUIDE
15.2 KNOWLEDGE STORE: MARKETSANDMARKETS’ SUBSCRIPTION PORTAL
15.3 AVAILABLE CUSTOMIZATIONS
15.4 RELATED REPORTS
15.5 AUTHOR DETAILS

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About

According to the new research report "Fingerprint Sensor Market by Type, Technology (Capacitive, Optical, Thermal), Application (Consumer Electronics, Government & Law Enforcement, Travel & Immigration, Banking & Finance), and Geography - Global Forecast to 2023", the fingerprint sensor market is expected to grow from USD 4.25 Billion in 2018 to USD 8.80 Billion by 2023, at a CAGR of 15.66%. The growth of this market is mainly driven by factors such as the proliferation of fingerprint sensors in smartphones and other consumer electronics, government support for the adoption of fingerprint sensors, and use of biometrics in mobile commerce.

The key players in the market include

Apple (US)

Synaptics (US)

Fingerprint Cards (Sweden)

Goodix (China)

IDEMIA (France)

Egis Technology (Taiwan)

NEXT Biometrics (Norway)

Anviz Global (US)

IDEX ASA (Norway)

Gemalto (Netherlands)

Capacitive fingerprint sensors to hold largest share of the fingerprint sensor market by 2023

Capacitive fingerprint sensors are expected to hold the largest share of the fingerprint

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sensor market based on technology, in terms of value, by 2023. The largest share of the sensors based on this technology is attributed to the use of capacitive fingerprint sensors in smartphones, laptops, and other consumer electronics. Moreover, Apple (US), Goodix (China), Egis Technology (Taiwan), and Synaptics (US), among others, are the major providers of the capacitive fingerprint sensors.

Fingerprint sensor market for banking and finance application to grow at highest CAGR between 2018 and 2023

The fingerprint sensor market for the banking and finance application is expected to grow at the highest CAGR between 2018 and 2023. The growth of the market for this application is attributed to the use of biometric smart cards in backs and finance-related organizations. In the near future, many companies are expected to play a major role in the market for smart cards, which can be used as payment cards. Companies such as NEXT Biometrics (Norway), Fingerprint Cards (Sweden), and IDEX ASA (Norway) are actively involved in the development and commercialization of smart cards. These cards would enable the consumers to make a contactless payment, taking security to the next level.

APAC to dominate fingerprint sensor market during forecast period

The fingerprint sensor market in APAC is expected to grow at the highest CAGR during the forecast period. The rise in disposable income in APAC countries has led to the increase in the demand and use of smartphones and laptops, which, in turn, has increased the growth of fingerprint sensor market in this region. The increasing penetration of fingerprint sensors and the influx of global players, along with the emergence of native players, are contributing to the growth of the market. As a result, APAC holds a significant share of the overall fingerprint sensor market.

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