

# Silicon-Based Fingerprint Sensors: Market Research Report

https://marketpublishers.com/r/S52431BE24DEN.html

Date: January 2019

Pages: 202

Price: US\$ 5,600.00 (Single User License)

ID: S52431BE24DEN

# **Abstracts**

This report analyzes the worldwide markets for Silicon-Based Fingerprint Sensors in US\$ Thousand and Thousand Units by the following Types and End-Use Segments: Types - Swipe Sensors, and Area Sensors; End-Use Segments - Notebooks, Physical Access Control, and Wireless Devices.

The report provides separate comprehensive analytics for the US, Canada, Japan, Europe, Asia-Pacific, Middle East & Africa, and Latin America. Annual estimates and forecasts are provided for the period 2016 through 2024.

Also, a five-year historic analysis is provided for these markets. Market data and analytics are derived from primary and secondary research.

Company profiles are primarily based on public domain information including company URLs. The report profiles 28 companies including many key and niche players such as -

Egis Technology Inc.

Fingerprint Cards AB

**FUJITSU** 

Hangzhou Synochip Data Security Technology Co., Ltd.

**IDEX ASA** 

Jiangsu Winch Corp., Ltd.







# **Contents**

# 1. INTRODUCTION, METHODOLOGY & PRODUCT DEFINITIONS

Study Reliability and Reporting Limitations
Disclaimers
Data Interpretation & Reporting Level
Quantitative Techniques & Analytics
Product Definitions and Scope of Study
Types

#### 1. SWIPE SENSORS

#### 2. AREA SENSORS

**End-Use Segments** 

#### 2. INDUSTRY OVERVIEW

Fingerprint Biometrics: An Introduction
Comparative Analysis of Various Biometric Technology Traits
Review of Fingerprint Biometrics Market
Sensors – A Key Element of Fingerprint System
Limitations of Traditional Technologies Drive Focus on Silicon-Based Fingerprint
Sensors
Silicon-Based Fingerprint Sensors Market Scenario
Outlook

**Table 1.** Global Fingerprint Biometrics Market (2017E): Percentage Breakdown of Revenues by End-Use Sector (includes corresponding Graph/Chart)

Swipe Sensors Continue to Dominate

# 3. GROWTH DRIVERS, MARKET TRENDS & ISSUES

Technological Advancements to Spearhead Market Growth

Ultrasonic Fingerprint Sensor – Evolve as a More Accurate Technology

Stringent Governmental Regulations to Propel Biometric Market



Expanding e-Governance Projects Drive Opportunities

General Acceptance of Biometric Authentication Technology Bodes Well for Market

Flexible Fingerprint Sensors Add Value to Biometric Applications

Flexible Fingerprint Sensors in IoT Applications

Introducing Flexible Fingerprint sensors into Products

Non-Automated Fingerprint Identification Systems in Logical Access Control

Applications – Major Application Area for Silicon Based Fingerprint Sensors

Notebooks with Fingerprint Scanning Feature – The Largest End-Use Application

Market for Silicon-Based Fingerprint Sensors

Wireless Devices to Lend Significant Traction in Coming Years

**Table 2.** World Market for Smartphones (2016, 2018 & 2022): Breakdown of Sales in Million Units by Geographic Region/Country (includes corresponding Graph/Chart)

**Table 3.** Global Penetration Rate (In %) of Fingerprint Sensor in Smartphones for Years 2014, 2016, 2018 and 2020 (includes corresponding Graph/Chart)

Select Smartphone Models with Fingerprint Recognition Technology

Display-Based Fingerprint Sensors Gain Attention

In-Screen Fingerprint Sensor Technology Based Phones Set to Register Exponential Growth

Vivo Develops World's First In-Display Fingerprint Scanner Based Smartphone Expected Rise in Use of Fingerprint Recognition for Internet Applications to Drive

Demand for Silicon-Based Fingerprint Sensors

Physical Access Control Implementations Turning into Mainstream End-Use Market for Silicon-Based Fingerprint Sensors

Consumer & Private Sector Fingerprint Recognition Applications – Major Revenue Contributors

Workforce Mobility & BYOD Strategies in Enterprises to Drive Demand for Silicon Based Fingerprint Recognition for Mobile Devices

Key Statistical Data

**Table 4.** Global Mobile Workforce Population (2017 & 2024): Breakdown of Number of Mobile Employees in Million by Region/Country (includes corresponding Graph/Chart)

**Table 5.** Global Mobile Workforce Population (2017E): Penetration of Mobile Employees by Region/Country (includes corresponding Graph/Chart)



**Table 6.** With a Projected 11.7 % Increase in the Share of Corporate-Owned Tablets by 2018, BYOD Goes Mainstream Spurring Need for Fingerprint Sensors As a Security Measure: Global Percentage Breakdown of Installed Base of Corporate-Owned and Consumer Owned Tablets for Years 2011, 2014 & 2017 (includes corresponding Graph/Chart)

**Table 7.** Robust Penetration of BYOD Devices as Measured by the Per Capita Distribution of Connected Devices Per Knowledge Worker in Select Countries for Year 2012 & 2018E (includes corresponding Graph/Chart)

Growing Adoption in Banking & Financial Services Sector
Fingerprint Biometrics Identify Potential Opportunities in Retail Vertical
Biometrics Technology Becomes Indispensable in Identity Verification & Access Control at Airports

Fingerprint Biometrics: The Preferred Choice in Immigration Control & Travel Document Verification

Market Challenges

Hygiene Issues Take Centre Stage

Fingerprints Forgery – A Major Issue

Challenges Faced by Silicon Chip Fingerprint Sensor Manufacturers
Public Apprehensions Mar Wider Adoption of Fingerprint Identification
Issues with Fingerprint Capturing Pose Significant Challenges

#### 4. BIOMETRICS INDUSTRY - AN OVERVIEW

Biometrics Technology: A Prelude

**Table 8.** Global Biometrics Market (2017E): Percentage Breakdown of Revenues by Technology (includes corresponding Graph/Chart)

**Table 9.** Global Biometrics Market (2017E): Percentage Share Breakdown of Revenues by End-Use Sector (includes corresponding Graph/Chart)

Increased Threat of Terrorist Attacks Call for Use of Biometrics Technology Significance of Biometrics

Biometrics in Government & Enterprise Sector

Global Biometrics Market (2007-2015): Analysis of Demand in Public Sector by Application Areas - Integrated eBorders, eID and eGovernment



Global Biometrics Market (2007-2015): Analysis of Demand in Commercial Sector by Application Areas - Enterprise Security, Information Transactions and Financial Transactions

Fingerprint Identification: The Most Widely Used Biometrics Technology

Comparative Analysis of Various Biometric Technology Traits

Select Organizations Governing the Use of Biometrics

Biometric Consortium

Biometrics Security Consortium (BSC)

Biometrics Working Group (BWG)

European Biometrics Forum (EBF)

International Association for Biometrics (iAfB)

International Biometric Foundation (IBF)

International Biometrics Industry Association (IBIA)

Nederlands Biometrie Forum (NBF)

National Biometric Security Project (NBSP)

National Biometric Test Center (NBTC)

#### 5. PRODUCT OVERVIEW

Introduction to Fingerprint Authentication

Phases of Fingerprint Recognition

**Enrollment** 

Authentication

Performance Criteria of Fingerprint Recognition Systems

Types of Fingerprint Security Systems

Optical Fingerprint Security Systems

Thermal Fingerprint Security Systems

Ultrasound Fingerprint Security Systems

Silicon Chip Fingerprint Security Systems

Area Sensors

Swipe Sensors

#### 6. COMPETITIVE LANDSCAPE

Asian Manufacturers Steadily Penetrate the Global Fingerprint Biometrics Market

6.1 Focus on Select Global Players

Egis Technology Inc. (Taiwan)

Fingerprint Cards AB (Sweden)

FUJITSU (Japan)



Hangzhou Synochip Data Security Technology Co., Ltd. (China)

IDEX ASA (Norway)

Jiangsu Winch Corp., Ltd. (China)

Microchip Technology, Inc. (USA)

NEXT Biometrics Group ASA (Norway)

Synaptics Incorporated (USA)

6.2 Product Introductions/Innovations

Fingerprints Launches FPC1511 Fingerprint Sensor for Smartphones

IDEX Launches Fingerprint Sensor for Contactless Cards

IDEX Expands Fingerprint Solutions with Launch of Glass and Ceramic Touch Sensors

6.3 Recent Industry Activity

Japan Display Announces the Development of Transparent Glass-Based Capacitive

Fingerprint Sensor

Microchip Technology Acquires Atmel

#### 7. GLOBAL MARKET PERSPECTIVE

**Table 10.** World Recent Past, Current & Future Analysis for Silicon-based Fingerprint Sensors by Geographic Region/Country - US, Canada, Japan, Europe, Asia-Pacific (excluding Japan), Middle East & Africa, and Latin American Markets Independently Analyzed with Annual Sales in US\$ Thousand for Years 2016 through 2024 (includes corresponding Graph/Chart)

**Table 11.** World Historic Review for Silicon-based Fingerprint Sensors by Geographic Region/Country - US, Canada, Japan, Europe, Asia-Pacific (excluding Japan), Middle East & Africa, and Latin American Markets Independently Analyzed with Annual Sales in US\$ Thousand for Years 2011 through 2015 (includes corresponding Graph/Chart)

**Table 12.** World 14-Year Perspective for Silicon-based Fingerprint Sensors by Geographic Region/Country - Percentage Breakdown of Sales for US, Canada, Japan, Europe, Asia-Pacific (excluding Japan), Middle East & Africa, and Latin American Markets for Years 2011, 2018 & 2024 (includes corresponding Graph/Chart)

Value Market by Type

**Table 13.** World Recent Past, Current & Future Analysis for Silicon-based Swipe Fingerprint Sensors by Geographic Region/Country - US, Canada, Japan, Europe, Asia-



Pacific (excluding Japan), Middle East & Africa, and Latin American Markets Independently Analyzed with Annual Sales in US\$ Thousand for Years 2016 through 2024 (includes corresponding Graph/Chart)

**Table 14.** World Historic Review for Silicon-based Swipe Fingerprint Sensors by Geographic Region/Country - US, Canada, Japan, Europe, Asia-Pacific (excluding Japan), Middle East & Africa, and Latin American Markets Independently Analyzed with Annual Sales in US\$ Thousand for Years 2011 through 2015 (includes corresponding Graph/Chart)

**Table 15.** World 14-Year Perspective for Silicon-based Swipe Fingerprint Sensors by Geographic Region/Country - Percentage Breakdown of Sales for US, Canada, Japan, Europe, Asia-Pacific (excluding Japan), Middle East & Africa, and Latin American Markets for Years 2011, 2018 & 2024 (includes corresponding Graph/Chart)

**Table 16.** World Recent Past, Current & Future Analysis for Silicon-based Area Fingerprint Sensors by Geographic Region/Country - US, Canada, Japan, Europe, Asia-Pacific (excluding Japan), Middle East & Africa, and Latin American Markets Independently Analyzed with Annual Sales in US\$ Thousand for Years 2016 through 2024 (includes corresponding Graph/Chart)

**Table 17.** World Historic Review for Silicon-based Area Fingerprint Sensors by Geographic Region/Country - US, Canada, Japan, Europe, Asia-Pacific (excluding Japan), Middle East & Africa, and Latin American Markets Independently Analyzed with Annual Sales in US\$ Thousand for Years 2011 through 2015 (includes corresponding Graph/Chart)

**Table 18.** World 14-Year Perspective for Silicon-based Area Fingerprint Sensors by Geographic Region/Country - Percentage Breakdown of Sales for US, Canada, Japan, Europe, Asia-Pacific (excluding Japan), Middle East & Africa, and Latin American Markets for Years 2011, 2018 & 2024 (includes corresponding Graph/Chart)

Value Market by End-Use Segment

**Table 19.** World Recent Past, Current & Future Analysis for Silicon-based Fingerprint Sensors in Notebooks by Geographic Region/Country - US, Canada, Japan, Europe, Asia-Pacific (excluding Japan), Middle East & Africa, and Latin American Markets Independently Analyzed with Annual Sales in US\$ Thousand for Years 2016 through



2024 (includes corresponding Graph/Chart)

**Table 20.** World Historic Review for Silicon-based Fingerprint Sensors in Notebooks by Geographic Region/Country - US, Canada, Japan, Europe, Asia-Pacific (excluding Japan), Middle East & Africa, and Latin American Markets Independently Analyzed with Annual Sales in US\$ Thousand for Years 2011 through 2015 (includes corresponding Graph/Chart)

**Table 21.** World 14-Year Perspective for Silicon-based Fingerprint Sensors in Notebooks by Geographic Region/Country - Percentage Breakdown of Sales for US, Canada, Japan, Europe, Asia-Pacific (excluding Japan), Middle East & Africa, and Latin American Markets for Years 2011, 2018 & 2024 (includes corresponding Graph/Chart)

**Table 22.** World Recent Past, Current & Future Analysis for Silicon-based Fingerprint Sensors in Physical Access Control by Geographic Region/ Country - US, Canada, Japan, Europe, Asia-Pacific (excluding Japan), Middle East & Africa, and Latin American Markets Independently Analyzed with Annual Sales in US\$ Thousand for Years 2016 through 2024 (includes corresponding Graph/Chart)

**Table 23.** World Historic Review for Silicon-based Fingerprint Sensors in Physical Access Control by Geographic Region/Country - US, Canada, Japan, Europe, Asia-Pacific (excluding Japan), Middle East & Africa, and Latin American Markets Independently Analyzed with Annual Sales in US\$ Thousand for Years 2011 through 2015 (includes corresponding Graph/Chart)

**Table 24.** World 14-Year Perspective for Silicon-based Fingerprint Sensors in Physical Access Control by Geographic Region/Country - Percentage Breakdown of Sales for US, Canada, Japan, Europe, Asia-Pacific (excluding Japan), Middle East & Africa, and Latin American Markets for Years 2011, 2018 & 2024 (includes corresponding Graph/Chart)

**Table 25.** World Recent Past, Current & Future Analysis for Silicon-based Fingerprint Sensors in Wireless Devices by Geographic Region/Country - US, Canada, Japan, Europe, Asia-Pacific (excluding Japan), Middle East & Africa, and Latin American Markets Independently Analyzed with Annual Sales in US\$ Thousand for Years 2016 through 2024 (includes corresponding Graph/Chart)

**Table 26.** World Historic Review for Silicon-based Fingerprint Sensors in Wireless Devices by Geographic Region/Country - US, Canada, Japan, Europe, Asia-Pacific



(excluding Japan), Middle East & Africa, and Latin American Markets Independently Analyzed with Annual Sales in US\$ Thousand for Years 2011 through 2015 (includes corresponding Graph/Chart)

**Table 27.** World 14-Year Perspective for Silicon-based Fingerprint Sensors in Wireless Devices by Geographic Region/Country - Percentage Breakdown of Sales for US, Canada, Japan, Europe, Asia-Pacific (excluding Japan), Middle East & Africa, and Latin American Markets for Years 2011, 2018 & 2024 (includes corresponding Graph/Chart)

Volume Market by Type

**Table 28.** World Recent Past, Current & Future Analysis for Silicon-based Fingerprint Sensors by Type - Swipe and Area Sensors Markets Independently Analyzed with Annual Sales in Thousand Units for Years 2016 through 2024 (includes corresponding Graph/Chart)

**Table 29.** World Historic Review for Silicon-based Fingerprint Sensors by Type - Swipe and Area Sensors Markets Independently Analyzed with Annual Sales in Thousand Units for Years 2011 through 2015 (includes corresponding Graph/Chart)

**Table 30.** World 14-Year Perspective for Silicon-Based Fingerprint Sensors by Type - Percentage Breakdown of Unit Sales for Swipe and Area Sensors Markets for Years 2011, 2018 & 2024 (includes corresponding Graph/Chart)

# 8. REGIONAL MARKET PERSPECTIVE

8.1 The United StatesA. Market AnalysisCurrent & Future Analysis

Security Concerns Drive Growth in the Biometrics Market

**Table 31.** US Biometrics Market (2017E): Percentage Breakdown of Revenues by Technology Type (includes corresponding Graph/Chart)

Governmental Spending on Biometric Technologies Fuels Demand for Fingerprint Biometrics

Select Governmental Biometric Systems Programs in the US



Fingerprint Identification – A Major Forensics Tool

**Table 32.** US Forensic Products & Services Market (2017E): Percentage Breakdown of Revenue by Product/Service Segment (includes corresponding Graph/Chart)

Fingerprint Biometrics in School Bus Transportation B. Market Analytics

**Table 33.** US Recent Past, Current & Future Analysis for Silicon-based Fingerprint Sensors by Type - Swipe and Area Markets Independently Analyzed with Annual Sales in US\$ Thousand for Years 2016 through 2024 (includes corresponding Graph/Chart)

**Table 34.** US Historic Review for Silicon-based Fingerprint Sensors by Type - Swipe and Area Markets Independently Analyzed with Annual Sales in US\$ Thousand for Years 2011 through 2015 (includes corresponding Graph/Chart)

**Table 35.** US 14-Year Perspective for Silicon-based Fingerprint Sensors by Type - Percentage Breakdown of Sales for Swipe and Area Markets for Years 2011, 2018 & 2024 (includes corresponding Graph/Chart)

**Table 36.** US Recent Past, Current & Future Analysis for Silicon-based Fingerprint Sensors by End-Use Segment - Notebooks, Physical Access Control, and Wireless Devices Markets Independently Analyzed with Annual Sales in US\$ Thousand for Years 2016 through 2024 (includes corresponding Graph/Chart)

**Table 37.** US Historic Review for Silicon-based Fingerprint Sensors by End-Use Segment - Notebooks, Physical Access Control, and Wireless Devices Markets Independently Analyzed with Annual Sales in US\$ Thousand for Years 2011 through 2015 (includes corresponding Graph/Chart)

**Table 38.** US 14-Year Perspective for Silicon-based Fingerprint Sensors by End-Use Segment - Percentage Breakdown of Sales for Notebooks, Physical Access Control, and Wireless Devices Markets for Years 2011, 2018 & 2024 (includes corresponding Graph/Chart)

8.2 CANADA Market Analysis



**Table 39.** Canadian Recent Past, Current & Future Analysis for Silicon-based Fingerprint Sensors by Type - Swipe and Area Markets Independently Analyzed with Annual Sales in US\$ Thousand for Years 2016 through 2024 (includes corresponding Graph/Chart)

**Table 40.** Canadian Historic Review for Silicon-based Fingerprint Sensors by Type - Swipe and Area Markets Independently Analyzed with Annual Sales in US\$ Thousand for Years 2011 through 2015 (includes corresponding Graph/Chart)

**Table 41.** Canadian 14-Year Perspective for Silicon-based Fingerprint Sensors by Type - Percentage Breakdown of Sales for Swipe and Area Markets for Years 2011, 2018 & 2024 (includes corresponding Graph/Chart)

**Table 42.** Canadian Recent Past, Current & Future Analysis for Silicon-based Fingerprint Sensors by End-Use Segment - Notebooks, Physical Access Control, and Wireless Devices Markets Independently Analyzed with Annual Sales in US\$ Thousand for Years 2016 through 2024 (includes corresponding Graph/Chart)

**Table 43.** Canadian Historic Review for Silicon-based Fingerprint Sensors by End-Use Segment - Notebooks, Physical Access Control, and Wireless Devices Markets Independently Analyzed with Annual Sales in US\$ Thousand for Years 2011 through 2015 (includes corresponding Graph/Chart)

**Table 44.** Canadian 14-Year Perspective for Silicon-based Fingerprint Sensors by End-Use Segment - Percentage Breakdown of Sales for Notebooks, Physical Access Control, and Wireless Devices Markets for Years 2011, 2018 & 2024 (includes corresponding Graph/Chart)

8.3 JAPAN Market Analysis

**Table 45.** Japanese Recent Past, Current & Future Analysis for Silicon-based Fingerprint Sensors by Type - Swipe and Area Markets Independently Analyzed with Annual Sales in US\$ Thousand for Years 2016 through 2024 (includes corresponding Graph/Chart)



**Table 46.** Japanese Historic Review for Silicon-based Fingerprint Sensors by Type - Swipe and Area Markets Independently Analyzed with Annual Sales in US\$ Thousand for Years 2011 through 2015 (includes corresponding Graph/Chart)

**Table 47.** Japanese 14-Year Perspective for Silicon-based Fingerprint Sensors by Type - Percentage Breakdown of Sales for Swipe and Area Markets for Years 2011, 2018 & 2024 (includes corresponding Graph/Chart)

**Table 48.** Japanese Recent Past, Current & Future Analysis for Silicon-based Fingerprint Sensors by End-Use Segment - Notebooks, Physical Access Control, and Wireless Devices Markets Independently Analyzed with Annual Sales in US\$ Thousand for Years 2016 through 2024 (includes corresponding Graph/Chart)

**Table 49.** Japanese Historic Review for Silicon-based Fingerprint Sensors by End-Use Segment - Notebooks, Physical Access Control, and Wireless Devices Markets Independently Analyzed with Annual Sales in US\$ Thousand for Years 2011 through 2015 (includes corresponding Graph/Chart)

**Table 50.** Japanese 14-Year Perspective for Silicon-based Fingerprint Sensors by End-Use Segment - Percentage Breakdown of Sales for Notebooks, Physical Access Control, and Wireless Devices Markets for Years 2011, 2018 & 2024 (includes corresponding Graph/Chart)

# 8.4 EUROPE

A. Market Analysis
Current and Future Analysis
Emerging Biometric Applications Gaining Preference
Biometrics Market – On the Growth Path
Retail Sector – A Major Area for Biometrics
Focus on International Trade Bodes Well for Fingerprint Biometrics
B. Market Analytics

**Table 51.** European Recent Past, Current & Future Analysis for Silicon-based Fingerprint Sensors by Geographic Region/Country - France, Germany, UK, and Rest of Europe Markets Independently Analyzed with Annual Sales in US\$ Thousand for Years 2016 through 2024 (includes corresponding Graph/Chart)

**Table 52.** European Historic Review for Silicon-based Fingerprint Sensors by



Geographic Region/Country - France, Germany, UK, and Rest of Europe Markets Independently Analyzed with Annual Sales in US\$ Thousand for Years 2011 through 2015 (includes corresponding Graph/Chart)

**Table 53.** European 14-Year Perspective for Silicon-based Fingerprint Sensors by Geographic Region/Country - Percentage Breakdown of Sales for France, Germany, UK, and Rest of Europe Markets for Years 2011, 2018 & 2024 (includes corresponding Graph/Chart)

**Table 54.** European Recent Past, Current & Future Analysis for Silicon-based Fingerprint Sensors by Type - Swipe and Area Markets Independently Analyzed with Annual Sales in US\$ Thousand for Years 2016 through 2024 (includes corresponding Graph/Chart)

**Table 55.** European Historic Review for Silicon-based Fingerprint Sensors by Type - Swipe and Area Markets Independently Analyzed with Annual Sales in US\$ Thousand for Years 2011 through 2015 (includes corresponding Graph/Chart)

**Table 56.** European 14-Year Perspective for Silicon-based Fingerprint Sensors by Type - Percentage Breakdown of Sales for Swipe and Area Markets for Years 2011, 2018 & 2024 (includes corresponding Graph/Chart)

**Table 57.** European Recent Past, Current & Future Analysis for Silicon-based Fingerprint Sensors by End-Use Segment - Notebooks, Physical Access Control, and Wireless Devices Markets Independently Analyzed with Annual Sales in US\$ Thousand for Years 2016 through 2024 (includes corresponding Graph/Chart)

**Table 58.** European Historic Review for Silicon-based Fingerprint Sensors by End-Use Segment - Notebooks, Physical Access Control, and Wireless Devices Markets Independently Analyzed with Annual Sales in US\$ Thousand for Years 2011 through 2015 (includes corresponding Graph/Chart)

**Table 59.** European 14-Year Perspective for Silicon-based Fingerprint Sensors by End-Use Segment - Percentage Breakdown of Sales for Notebooks, Physical Access Control, and Wireless Devices Markets for Years 2011, 2018 & 2024 (includes corresponding Graph/Chart)

8.4.1 FRANCE Market Analysis



**Table 60.** French Recent Past, Current & Future Analysis for Silicon-based Fingerprint Sensors by Type - Swipe and Area Markets Independently Analyzed with Annual Sales in US\$ Thousand for Years 2016 through 2024 (includes corresponding Graph/Chart)

**Table 61.** French Historic Review for Silicon-based Fingerprint Sensors by Type - Swipe and Area Markets Independently Analyzed with Annual Sales in US\$ Thousand for Years 2011 through 2015 (includes corresponding Graph/Chart)

**Table 62.** French 14-Year Perspective for Silicon-based Fingerprint Sensors by Type - Percentage Breakdown of Sales for Swipe and Area Markets for Years 2011, 2018 & 2024 (includes corresponding Graph/Chart)

**Table 63.** French Recent Past, Current & Future Analysis for Silicon-based Fingerprint Sensors by End-Use Segment - Notebooks, Physical Access Control, and Wireless Devices Markets Independently Analyzed with Annual Sales in US\$ Thousand for Years 2016 through 2024 (includes corresponding Graph/Chart)

**Table 64.** French Historic Review for Silicon-based Fingerprint Sensors by End-Use Segment - Notebooks, Physical Access Control, and Wireless Devices Markets Independently Analyzed with Annual Sales in US\$ Thousand for Years 2011 through 2015 (includes corresponding Graph/Chart)

**Table 65.** French 14-Year Perspective for Silicon-based Fingerprint Sensors by End-Use Segment - Percentage Breakdown of Sales for Notebooks, Physical Access Control, and Wireless Devices Markets for Years 2011, 2018 & 2024 (includes corresponding Graph/Chart)

8.4.2 GERMANY
A. Market Analysis
Current and Future Analysis
Biometrics Market Overview
B. Market Analytics

**Table 66.** German Recent Past, Current & Future Analysis for Silicon-based Fingerprint Sensors by Type - Swipe and Area Markets Independently Analyzed with Annual Sales in US\$ Thousand for Years 2016 through 2024 (includes corresponding Graph/Chart)



**Table 67.** German Historic Review for Silicon-based Fingerprint Sensors by Type - Swipe and Area Markets Independently Analyzed with Annual Sales in US\$ Thousand for Years 2011 through 2015 (includes corresponding Graph/Chart)

**Table 68.** German 14-Year Perspective for Silicon-based Fingerprint Sensors by Type - Percentage Breakdown of Sales for Swipe and Area Markets for Years 2011, 2018 & 2024 (includes corresponding Graph/Chart)

**Table 69.** German Recent Past, Current & Future Analysis for Silicon-based Fingerprint Sensors by End-Use Segment - Notebooks, Physical Access Control, and Wireless Devices Markets Independently Analyzed with Annual Sales in US\$ Thousand for Years 2016 through 2024 (includes corresponding Graph/Chart)

**Table 70.** German Historic Review for Silicon-based Fingerprint Sensors by End-Use Segment - Notebooks, Physical Access Control, and Wireless Devices Markets Independently Analyzed with Annual Sales in US\$ Thousand for Years 2011 through 2015 (includes corresponding Graph/Chart)

**Table 71.** German 14-Year Perspective for Silicon-based Fingerprint Sensors by End-Use Segment - Percentage Breakdown of Sales for Notebooks, Physical Access Control, and Wireless Devices Markets for Years 2011, 2018 & 2024 (includes corresponding Graph/Chart)

# 8.4.3 THE UNITED KINGDOM

A. Market Analysis
Current and Future Analysis
Rising Government Spending Benefit Fingerprint Biometrics Market

**Table 72.** UK Biometrics Market by Technology Type (2017E): Percentage Breakdown of Government Spending for Face Recognition, Fingerprint Recognition, and Others (includes corresponding Graph/Chart)

Biometric Passports and ID Cards
B. Market Analytics

**Table 73.** The UK Recent Past, Current & Future Analysis for Silicon-based Fingerprint Sensors by Type - Swipe and Area Markets Independently Analyzed with Annual Sales



in US\$ Thousand for Years 2016 through 2024 (includes corresponding Graph/Chart)

**Table 74.** The UK Historic Review for Silicon-based Fingerprint Sensors by Type - Swipe and Area Markets Independently Analyzed with Annual Sales in US\$ Thousand for Years 2011 through 2015 (includes corresponding Graph/Chart)

**Table 75.** The UK 14-Year Perspective for Silicon-based Fingerprint Sensors by Type - Percentage Breakdown of Sales for Swipe and Area Markets for Years 2011, 2018 & 2024 (includes corresponding Graph/Chart)

**Table 76.** The UK Recent Past, Current & Future Analysis for Silicon-based Fingerprint Sensors by End-Use Segment - Notebooks, Physical Access Control, and Wireless Devices Markets Independently Analyzed with Annual Sales in US\$ Thousand for Years 2016 through 2024 (includes corresponding Graph/Chart)

**Table 77.** The UK Historic Review for Silicon-based Fingerprint Sensors by End-Use Segment - Notebooks, Physical Access Control, and Wireless Devices Markets Independently Analyzed with Annual Sales in US\$ Thousand for Years 2011 through 2015 (includes corresponding Graph/Chart)

**Table 78.** The UK 14-Year Perspective for Silicon-based Fingerprint Sensors by End-Use Segment - Percentage Breakdown of Sales for Notebooks, Physical Access Control, and Wireless Devices Markets for Years 2011, 2018 & 2024 (includes corresponding Graph/Chart)

# 8.4.4 REST OF EUROPE

A. Market Analysis
Current and Future Analysis
Overview of Select Markets
Italy
Biometric Passports in Italy
Russia

Government Investments Drive Fingerprint Biometrics Market Growth

**Table 79.** Russian Biometrics Market (2017E): Percentage Breakdown of Governmental Spending by Technology Type (includes corresponding Graph/Chart)

#### B. Market Analytics



**Table 80.** Rest of Europe Recent Past, Current & Future Analysis for Silicon-based Fingerprint Sensors by Type - Swipe and Area Markets Independently Analyzed with Annual Sales in US\$ Thousand for Years 2016 through 2024 (includes corresponding Graph/Chart)

**Table 81.** Rest of Europe Historic Review for Silicon-based Fingerprint Sensors by Type - Swipe and Area Markets Independently Analyzed with Annual Sales in US\$ Thousand for Years 2011 through 2015 (includes corresponding Graph/Chart)

**Table 82.** Rest of Europe 14-Year Perspective for Silicon-based Fingerprint Sensors by Type - Percentage Breakdown of Sales for Swipe and Area Markets for Years 2011, 2018 & 2024 (includes corresponding Graph/Chart)

**Table 83.** Rest of Europe Recent Past, Current & Future Analysis for Silicon-based Fingerprint Sensors by End-Use Segment - Notebooks, Physical Access Control, and Wireless Devices Markets Independently Analyzed with Annual Sales in US\$ Thousand for Years 2016 through 2024 (includes corresponding Graph/Chart)

**Table 84.** Rest of Europe Historic Review for Silicon-based Fingerprint Sensors by End-Use Segment - Notebooks, Physical Access Control, and Wireless Devices Markets Independently Analyzed with Annual Sales in US\$ Thousand for Years 2011 through 2015 (includes corresponding Graph/Chart)

**Table 85.** Rest of Europe 14-Year Perspective for Silicon-based Fingerprint Sensors by End-Use Segment - Percentage Breakdown of Sales for Notebooks, Physical Access Control, and Wireless Devices Markets for Years 2011, 2018 & 2024 (includes corresponding Graph/Chart)

8.5 ASIA-PACIFIC

A. Market Analysis

**Current and Future Analysis** 

Fingerprint and Voice Recognition Technologies Gaining Credence in the Region Multimodal Biometric Solutions – The New Age Mantra for Growth

Biometric ATMs – High Growth Potential

e-Passport and National ID Programs in Several Asian Countries Boost Market Penetration

China: Resident Identity Card Initiative



India: UIDAI, A Major Biometrics Project

**Table 86.** Indian Biometrics Market by Technology Type (2017E): Percentage Breakdown of Shipments for Fingerprint Recognition, IRIS Scanning, and Others (includes corresponding Graph/Chart)

**Table 87.** Indian Fingerprint Biometrics Market by End-Use Application (2017E): Percentage Breakdown of Deployments for Attendance, Banking & Financial Transactions, Home Security, and Others (includes corresponding Graph/Chart)

B. Market Analytics

**Table 88.** Asia-Pacific Recent Past, Current & Future Analysis for Silicon-based Fingerprint Sensors by Type - Swipe and Area Markets Independently Analyzed with Annual Sales in US\$ Thousand for Years 2016 through 2024 (includes corresponding Graph/Chart)

**Table 89.** Asia-Pacific Historic Review for Silicon-based Fingerprint Sensors by Type - Swipe and Area Markets Independently Analyzed with Annual Sales in US\$ Thousand for Years 2011 through 2015 (includes corresponding Graph/Chart)

**Table 90.** Asia-Pacific 14-Year Perspective for Silicon-based Fingerprint Sensors by Type - Percentage Breakdown of Sales for Swipe and Area Markets for Years 2011, 2018 & 2024 (includes corresponding Graph/Chart)

**Table 91.** Asia-Pacific Recent Past, Current & Future Analysis for Silicon-based Fingerprint Sensors by End-Use Segment - Notebooks, Physical Access Control, and Wireless Devices Markets Independently Analyzed with Annual Sales in US\$ Thousand for Years 2016 through 2024 (includes corresponding Graph/Chart)

**Table 92.** Asia-Pacific Historic Review for Silicon-based Fingerprint Sensors by End-Use Segment - Notebooks, Physical Access Control, and Wireless Devices Markets Independently Analyzed with Annual Sales in US\$ Thousand for Years 2011 through 2015 (includes corresponding Graph/Chart)

**Table 93.** Asia-Pacific 14-Year Perspective for Silicon-based Fingerprint Sensors by End-Use Segment - Percentage Breakdown of Sales for Notebooks, Physical Access



Control, and Wireless Devices Markets for Years 2011, 2018 & 2024 (includes corresponding Graph/Chart)

8.6 THE MIDDLE EAST & AFRICA Market Analysis

**Table 94.** Middle East & Africa Recent Past, Current & Future Analysis for Silicon-based Fingerprint Sensors by Type - Swipe and Area Markets Independently Analyzed with Annual Sales in US\$ Thousand for Years 2016 through 2024 (includes corresponding Graph/Chart)

**Table 95.** Middle East & Africa Historic Review for Silicon-based Fingerprint Sensors by Type - Swipe and Area Markets Independently Analyzed with Annual Sales in US\$ Thousand for Years 2011 through 2015 (includes corresponding Graph/Chart)

**Table 96.** Middle East & Africa 14-Year Perspective for Silicon-based Fingerprint Sensors by Type - Percentage Breakdown of Sales for Swipe and Area Markets for Years 2011, 2018 & 2024 (includes corresponding Graph/Chart)

**Table 97.** Middle East & Africa Recent Past, Current & Future Analysis for Silicon-based Fingerprint Sensors by End-Use Segment - Notebooks, Physical Access Control, and Wireless Devices Markets Independently Analyzed with Annual Sales in US\$ Thousand for Years 2016 through 2024 (includes corresponding Graph/Chart)

**Table 98.** Middle East & Africa Historic Review for Silicon-based Fingerprint Sensors by End-Use Segment - Notebooks, Physical Access Control, and Wireless Devices Markets Independently Analyzed with Annual Sales in US\$ Thousand for Years 2011 through 2015 (includes corresponding Graph/Chart)

**Table 99.** Middle East & Africa 14-Year Perspective for Silicon-based Fingerprint Sensors by End-Use Segment - Percentage Breakdown of Sales for Notebooks, Physical Access Control, and Wireless Devices Markets for Years 2011, 2018 & 2024 (includes corresponding Graph/Chart)

8.7 LATIN AMERICA Market Analysis



**Table 100.** Latin American Recent Past, Current & Future Analysis for Silicon-based Fingerprint Sensors by Type - Swipe and Area Markets Independently Analyzed with Annual Sales in US\$ Thousand for Years 2016 through 2024 (includes corresponding Graph/Chart)

**Table 101.** Latin American Historic Review for Silicon-based Fingerprint Sensors by Type - Swipe and Area Markets Independently Analyzed with Annual Sales in US\$ Thousand for Years 2011 through 2015 (includes corresponding Graph/Chart)

**Table 102.** Latin American 14-Year Perspective for Silicon-based Fingerprint Sensors by Type - Percentage Breakdown of Sales for Swipe and Area Markets for Years 2011, 2018 & 2024 (includes corresponding Graph/Chart)

**Table 103.** Latin American Recent Past, Current & Future Analysis for Silicon-based Fingerprint Sensors by End-Use Segment - Notebooks, Physical Access Control, and Wireless Devices Markets Independently Analyzed with Annual Sales in US\$ Thousand for Years 2016 through 2024 (includes corresponding Graph/Chart)

**Table 104.** Latin American Historic Review for Silicon-based Fingerprint Sensors by End-Use Segment - Notebooks, Physical Access Control, and Wireless Devices Markets Independently Analyzed with Annual Sales in US\$ Thousand for Years 2011 through 2015 (includes corresponding Graph/Chart)

**Table 105.** Latin American 14-Year Perspective for Silicon-based Fingerprint Sensors by End-Use Segment - Percentage Breakdown of Sales for Notebooks, Physical Access Control, and Wireless Devices Markets for Years 2011, 2018 & 2024 (includes corresponding Graph/Chart)

#### 9. COMPANY PROFILES

Total Companies Profiled: 28 (including Divisions/Subsidiaries - 29)

The United States (9)

Japan (4)

Europe (4)

Germany (1)

Rest of Europe (3)

Asia-Pacific (Excluding Japan) (12)



# I would like to order

Product name: Silicon-Based Fingerprint Sensors: Market Research Report

Product link: https://marketpublishers.com/r/S52431BE24DEN.html

Price: US\$ 5,600.00 (Single User License / Electronic Delivery)

If you want to order Corporate License or Hard Copy, please, contact our Customer

Service:

info@marketpublishers.com

# **Payment**

To pay by Credit Card (Visa, MasterCard, American Express, PayPal), please, click button on product page <a href="https://marketpublishers.com/r/S52431BE24DEN.html">https://marketpublishers.com/r/S52431BE24DEN.html</a>

To pay by Wire Transfer, please, fill in your contact details in the form below:

First name:	
Last name:	
Email:	
Company:	
Address:	
City:	
Zip code:	
Country:	
Tel:	
Fax:	
Your message:	
	**All fields are required
	Custumer signature

Please, note that by ordering from marketpublishers.com you are agreeing to our Terms & Conditions at <a href="https://marketpublishers.com/docs/terms.html">https://marketpublishers.com/docs/terms.html</a>

To place an order via fax simply print this form, fill in the information below and fax the completed form to +44 20 7900 3970