

Automated Fingerprint Identification System Market Outlook 2025-2034: Market Share, and Growth Analysis By Component (Hardware, Software, Services), By Identification (Latent Print Identification, Tenprint Identification), By End Use

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Abstracts

The Automated Fingerprint Identification System Market is valued at USD 14.9 billion in 2025 and is projected to grow at a CAGR of 17.8% to reach USD 64.9 billion by 2034. The automated fingerprint identification system (AFIS) market is growing due to the increasing demand for accurate and efficient biometric identification in law enforcement, border control, and civil identification applications. These systems automate the process of capturing, storing, and matching fingerprints. The market encompasses a range of AFIS solutions for various applications.

Technological advancements in fingerprint scanning, image processing, and matching algorithms are enhancing the accuracy and speed of AFIS. The integration of multimodal biometrics and mobile AFIS solutions is expanding the applications of AFIS. The market is witnessing increased demand for secure and reliable AFIS solutions.

The competitive landscape is characterized by a mix of biometric technology providers, law enforcement equipment manufacturers, and government contractors. Strategic partnerships and collaborations are crucial for developing integrated AFIS solutions. The growing focus on security and the increasing demand for efficient identification systems are driving market expansion.

Key Insights Automated Fingerprint Identification System Market

Multimodal Biometrics: Integrating fingerprint identification with other biometric

modalities.

Mobile AFIS Solutions: Enhancing portability and accessibility with mobile AFIS devices.

Advanced Matching Algorithms: Improving the accuracy and speed of fingerprint matching.

Secure Data Storage and Transmission: Ensuring the security and privacy of fingerprint data.

Cloud-Based AFIS Solutions: Utilizing cloud platforms for scalability and accessibility.

Increased Security Requirements: Growing need for robust identification systems in law enforcement and border control.

Efficiency in Identification: Automating fingerprint identification to improve efficiency.

Technological Advancements: Innovations in fingerprint scanning and matching.

Growing Government Initiatives: Government investments in biometric identification systems.

Increasing Demand for Civil Identification: Expanding use of AFIS in civil identification applications.

Accuracy and Reliability: Ensuring the accuracy and reliability of fingerprint matching.

Data Privacy and Security: Protecting the privacy and security of fingerprint data.

Interoperability Issues: Integrating AFIS with other identification systems.

High Implementation Costs: Significant upfront investments in AFIS technology.

False Positives and False Negatives: Minimizing errors in fingerprint matching.

Automated Fingerprint Identification System Market Segmentation

By Component

Hardware

Software

Services

By Identification

Latent Print Identification

Tenprint Identification

By End Use

Banking And Finance

Consumer Electronics

Defense And Security

Government

Healthcare

Transport Or Logistics

Other End Uses

Key Companies Analysed

Facebook

Fujitsu Limited

Safran Group

Thales Group

Gemalto Cogent Inc.

NEC Technologies India Private Limited

HID Global Corporation

secunet Security Networks AG

M2SYS Technology

Suprema Incorporation

Crossmatch

Dermalog Identification Systems GmbH

3M Cogent Inc.

Daon

AFIX Technologies Inc.

Cognitec Systems GmbH

Papillon Systems

Aware Inc.

Biometrics4ALL Inc.

BIO-key International Inc.

Precise Biometrics AB

East Shore Technologies

Fulcrum Biometrics LLC

Morpho SA

Sonda Technologies Ltd.

Automated Fingerprint Identification System Market Analytics

The report employs rigorous tools, including Porter's Five Forces, value chain mapping, and scenario-based modeling, to assess supply–demand dynamics. Cross-sector influences from parent, derived, and substitute markets are evaluated to identify risks and opportunities. Trade and pricing analytics provide an up-to-date view of international flows, including leading exporters, importers, and regional price trends.

Macroeconomic indicators, policy frameworks such as carbon pricing and energy security strategies, and evolving consumer behavior are considered in forecasting scenarios. Recent deal flows, partnerships, and technology innovations are incorporated to assess their impact on future market performance.

Automated Fingerprint Identification System Market Competitive Intelligence

The competitive landscape is mapped through OG Analysis' proprietary frameworks, profiling leading companies with details on business models, product portfolios, financial performance, and strategic initiatives. Key developments such as mergers & acquisitions, technology collaborations, investment inflows, and regional expansions are analyzed for their competitive impact. The report also identifies emerging players and innovative startups contributing to market disruption.

Regional insights highlight the most promising investment destinations, regulatory landscapes, and evolving partnerships across energy and industrial corridors.

Countries Covered

North America — Automated Fingerprint Identification System market data and outlook to 2034

United States

Canada

Mexico

Europe — Automated Fingerprint Identification System market data and outlook to 2034

Germany

United Kingdom

France

Italy

Spain

BeNeLux

Russia

Sweden

Asia-Pacific — Automated Fingerprint Identification System market data and outlook to 2034

China

Japan

India

South Korea

Australia

Indonesia

Malaysia

Vietnam

Middle East and Africa — Automated Fingerprint Identification System market data and outlook to 2034

Saudi Arabia

South Africa

Iran

UAE

Egypt

South and Central America — Automated Fingerprint Identification System market data and outlook to 2034

Brazil

Argentina

Chile

Peru

** We can include data and analysis of additional countries on demand.*

Research Methodology

This study combines primary inputs from industry experts across the Automated Fingerprint Identification System value chain with secondary data from associations, government publications, trade databases, and company disclosures. Proprietary modeling techniques, including data triangulation, statistical correlation, and scenario planning, are applied to deliver reliable market sizing and forecasting.

Key Questions Addressed

What is the current and forecast market size of the Automated Fingerprint Identification System industry at global, regional, and country levels?

Which types, applications, and technologies present the highest growth potential?

How are supply chains adapting to geopolitical and economic shocks?

What role do policy frameworks, trade flows, and sustainability targets play in shaping demand?

Who are the leading players, and how are their strategies evolving in the face of global uncertainty?

Which regional “hotspots” and customer segments will outpace the market, and what go-to-market and partnership models best support entry and expansion?

Where are the most investable opportunities—across technology roadmaps, sustainability-linked innovation, and M&A—and what is the best segment to invest over the next 3–5 years?

Your Key Takeaways from the Automated Fingerprint Identification System Market Report

Global Automated Fingerprint Identification System market size and growth projections (CAGR), 2024-2034

Impact of Russia-Ukraine, Israel-Palestine, and Hamas conflicts on Automated Fingerprint Identification System trade, costs, and supply chains

Automated Fingerprint Identification System market size, share, and outlook across 5 regions and 27 countries, 2023-2034

Automated Fingerprint Identification System market size, CAGR, and market share of key products, applications, and end-user verticals, 2023-2034

Short- and long-term Automated Fingerprint Identification System market trends, drivers, restraints, and opportunities

Porter's Five Forces analysis, technological developments, and Automated Fingerprint Identification System supply chain analysis

Automated Fingerprint Identification System trade analysis, Automated Fingerprint Identification System market price analysis, and Automated Fingerprint Identification System supply/demand dynamics

Profiles of 5 leading companies—overview, key strategies, financials, and products

Latest Automated Fingerprint Identification System market news and developments

Additional Support

With the purchase of this report, you will receive

An updated PDF report and an MS Excel data workbook containing all market tables and figures for easy analysis.

7-day post-sale analyst support for clarifications and in-scope supplementary data, ensuring the deliverable aligns precisely with your requirements.

Complimentary report update to incorporate the latest available data and the impact of recent market developments.

** The updated report will be delivered within 3 working days*

Contents

1. TABLE OF CONTENTS

- 1.1 List of Tables
- 1.2 List of Figures

2. GLOBAL AUTOMATED FINGERPRINT IDENTIFICATION SYSTEM MARKET SUMMARY, 2025

- 2.1 Automated Fingerprint Identification System Industry Overview
 - 2.1.1 Global Automated Fingerprint Identification System Market Revenues (In US\$ billion)
- 2.2 Automated Fingerprint Identification System Market Scope
- 2.3 Research Methodology

3. AUTOMATED FINGERPRINT IDENTIFICATION SYSTEM MARKET INSIGHTS, 2024-2034

- 3.1 Automated Fingerprint Identification System Market Drivers
- 3.2 Automated Fingerprint Identification System Market Restraints
- 3.3 Automated Fingerprint Identification System Market Opportunities
- 3.4 Automated Fingerprint Identification System Market Challenges
- 3.5 Tariff Impact on Global Automated Fingerprint Identification System Supply Chain Patterns

4. AUTOMATED FINGERPRINT IDENTIFICATION SYSTEM MARKET ANALYTICS

- 4.1 Automated Fingerprint Identification System Market Size and Share, Key Products, 2025 Vs 2034
- 4.2 Automated Fingerprint Identification System Market Size and Share, Dominant Applications, 2025 Vs 2034
- 4.3 Automated Fingerprint Identification System Market Size and Share, Leading End Uses, 2025 Vs 2034
- 4.4 Automated Fingerprint Identification System Market Size and Share, High Growth Countries, 2025 Vs 2034
- 4.5 Five Forces Analysis for Global Automated Fingerprint Identification System Market
 - 4.5.1 Automated Fingerprint Identification System Industry Attractiveness Index, 2025
 - 4.5.2 Automated Fingerprint Identification System Supplier Intelligence

- 4.5.3 Automated Fingerprint Identification System Buyer Intelligence
- 4.5.4 Automated Fingerprint Identification System Competition Intelligence
- 4.5.5 Automated Fingerprint Identification System Product Alternatives and Substitutes Intelligence
- 4.5.6 Automated Fingerprint Identification System Market Entry Intelligence

5. GLOBAL AUTOMATED FINGERPRINT IDENTIFICATION SYSTEM MARKET STATISTICS – INDUSTRY REVENUE, MARKET SHARE, GROWTH TRENDS AND FORECAST BY SEGMENTS, TO 2034

- 5.1 World Automated Fingerprint Identification System Market Size, Potential and Growth Outlook, 2024- 2034 (\$ billion)
- 5.1 Global Automated Fingerprint Identification System Sales Outlook and CAGR Growth By Component, 2024- 2034 (\$ billion)
- 5.2 Global Automated Fingerprint Identification System Sales Outlook and CAGR Growth By Identification, 2024- 2034 (\$ billion)
- 5.3 Global Automated Fingerprint Identification System Sales Outlook and CAGR Growth By End Use, 2024- 2034 (\$ billion)
- 5.4 Global Automated Fingerprint Identification System Market Sales Outlook and Growth by Region, 2024- 2034 (\$ billion)

6. ASIA PACIFIC AUTOMATED FINGERPRINT IDENTIFICATION SYSTEM INDUSTRY STATISTICS – MARKET SIZE, SHARE, COMPETITION AND OUTLOOK

- 6.1 Asia Pacific Automated Fingerprint Identification System Market Insights, 2025
- 6.2 Asia Pacific Automated Fingerprint Identification System Market Revenue Forecast By Component, 2024- 2034 (USD billion)
- 6.3 Asia Pacific Automated Fingerprint Identification System Market Revenue Forecast By Identification, 2024- 2034 (USD billion)
- 6.4 Asia Pacific Automated Fingerprint Identification System Market Revenue Forecast By End Use, 2024- 2034 (USD billion)
- 6.5 Asia Pacific Automated Fingerprint Identification System Market Revenue Forecast by Country, 2024- 2034 (USD billion)
 - 6.5.1 China Automated Fingerprint Identification System Market Size, Opportunities, Growth 2024- 2034
 - 6.5.2 India Automated Fingerprint Identification System Market Size, Opportunities, Growth 2024- 2034
 - 6.5.3 Japan Automated Fingerprint Identification System Market Size, Opportunities, Growth 2024- 2034

6.5.4 Australia Automated Fingerprint Identification System Market Size, Opportunities, Growth 2024- 2034

7. EUROPE AUTOMATED FINGERPRINT IDENTIFICATION SYSTEM MARKET DATA, PENETRATION, AND BUSINESS PROSPECTS TO 2034

7.1 Europe Automated Fingerprint Identification System Market Key Findings, 2025

7.2 Europe Automated Fingerprint Identification System Market Size and Percentage Breakdown By Component, 2024- 2034 (USD billion)

7.3 Europe Automated Fingerprint Identification System Market Size and Percentage Breakdown By Identification, 2024- 2034 (USD billion)

7.4 Europe Automated Fingerprint Identification System Market Size and Percentage Breakdown By End Use, 2024- 2034 (USD billion)

7.5 Europe Automated Fingerprint Identification System Market Size and Percentage Breakdown by Country, 2024- 2034 (USD billion)

7.5.1 Germany Automated Fingerprint Identification System Market Size, Trends, Growth Outlook to 2034

7.5.2 United Kingdom Automated Fingerprint Identification System Market Size, Trends, Growth Outlook to 2034

7.5.2 France Automated Fingerprint Identification System Market Size, Trends, Growth Outlook to 2034

7.5.2 Italy Automated Fingerprint Identification System Market Size, Trends, Growth Outlook to 2034

7.5.2 Spain Automated Fingerprint Identification System Market Size, Trends, Growth Outlook to 2034

8. NORTH AMERICA AUTOMATED FINGERPRINT IDENTIFICATION SYSTEM MARKET SIZE, GROWTH TRENDS, AND FUTURE PROSPECTS TO 2034

8.1 North America Snapshot, 2025

8.2 North America Automated Fingerprint Identification System Market Analysis and Outlook By Component, 2024- 2034 (\$ billion)

8.3 North America Automated Fingerprint Identification System Market Analysis and Outlook By Identification, 2024- 2034 (\$ billion)

8.4 North America Automated Fingerprint Identification System Market Analysis and Outlook By End Use, 2024- 2034 (\$ billion)

8.5 North America Automated Fingerprint Identification System Market Analysis and Outlook by Country, 2024- 2034 (\$ billion)

8.5.1 United States Automated Fingerprint Identification System Market Size, Share,

Growth Trends and Forecast, 2024- 2034

8.5.1 Canada Automated Fingerprint Identification System Market Size, Share, Growth Trends and Forecast, 2024- 2034

8.5.1 Mexico Automated Fingerprint Identification System Market Size, Share, Growth Trends and Forecast, 2024- 2034

9. SOUTH AND CENTRAL AMERICA AUTOMATED FINGERPRINT IDENTIFICATION SYSTEM MARKET DRIVERS, CHALLENGES, AND FUTURE PROSPECTS

9.1 Latin America Automated Fingerprint Identification System Market Data, 2025

9.2 Latin America Automated Fingerprint Identification System Market Future By Component, 2024- 2034 (\$ billion)

9.3 Latin America Automated Fingerprint Identification System Market Future By Identification, 2024- 2034 (\$ billion)

9.4 Latin America Automated Fingerprint Identification System Market Future By End Use, 2024- 2034 (\$ billion)

9.5 Latin America Automated Fingerprint Identification System Market Future by Country, 2024- 2034 (\$ billion)

9.5.1 Brazil Automated Fingerprint Identification System Market Size, Share and Opportunities to 2034

9.5.2 Argentina Automated Fingerprint Identification System Market Size, Share and Opportunities to 2034

10. MIDDLE EAST AFRICA AUTOMATED FINGERPRINT IDENTIFICATION SYSTEM MARKET OUTLOOK AND GROWTH PROSPECTS

10.1 Middle East Africa Overview, 2025

10.2 Middle East Africa Automated Fingerprint Identification System Market Statistics By Component, 2024- 2034 (USD billion)

10.3 Middle East Africa Automated Fingerprint Identification System Market Statistics By Identification, 2024- 2034 (USD billion)

10.4 Middle East Africa Automated Fingerprint Identification System Market Statistics By End Use, 2024- 2034 (USD billion)

10.5 Middle East Africa Automated Fingerprint Identification System Market Statistics by Country, 2024- 2034 (USD billion)

10.5.1 Middle East Automated Fingerprint Identification System Market Value, Trends, Growth Forecasts to 2034

10.5.2 Africa Automated Fingerprint Identification System Market Value, Trends,

Growth Forecasts to 2034

11. AUTOMATED FINGERPRINT IDENTIFICATION SYSTEM MARKET STRUCTURE AND COMPETITIVE LANDSCAPE

- 11.1 Key Companies in Automated Fingerprint Identification System Industry
- 11.2 Automated Fingerprint Identification System Business Overview
- 11.3 Automated Fingerprint Identification System Product Portfolio Analysis
- 11.4 Financial Analysis
- 11.5 SWOT Analysis

12 APPENDIX

- 12.1 Global Automated Fingerprint Identification System Market Volume (Tons)
- 12.1 Global Automated Fingerprint Identification System Trade and Price Analysis
- 12.2 Automated Fingerprint Identification System Parent Market and Other Relevant Analysis
- 12.3 Publisher Expertise
- 12.2 Automated Fingerprint Identification System Industry Report Sources and Methodology

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