

E-Passport Market Outlook 2025-2034: Market Share, and Growth Analysis By Components (Hardware, Software, Services), By Security (Basic Access Control, Password Authentication Connection Establishment, Supplement Access Control), By Technology, By Application

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Abstracts

The E-Passport Market is valued at USD 42.2 billion in 2025 and is projected to grow at a CAGR of 23.8% to reach USD 287.4 billion by 2034.

E-Passport Market Overview

The e-passport market has been gaining momentum as governments worldwide prioritize secure and efficient travel documentation. E-passports, also known as biometric passports, integrate an embedded microchip that stores digital information, enhancing identity verification and reducing the risk of fraud. The rise in international travel, coupled with the need for robust border security measures, has driven widespread adoption of e-passports. Additionally, the growing emphasis on digital transformation within government agencies has accelerated the implementation of advanced passport technologies. E-passports streamline airport processing by enabling automated identity verification at immigration checkpoints, reducing congestion and enhancing travel convenience. With security threats evolving, governments are continuously upgrading e-passport infrastructure to incorporate advanced encryption and biometric authentication features, ensuring compliance with international security standards. The e-passport market has witnessed significant advancements, driven by regulatory mandates and technological innovations. Countries across Europe, North America, and Asia-Pacific have expanded e-passport issuance programs, making

biometric passports a standard for international travel. The integration of Near Field Communication (NFC) technology has enabled seamless verification through mobile apps and self-service kiosks at airports. Moreover, artificial intelligence and machine learning are being leveraged to enhance fraud detection and streamline document processing. Governments are increasingly collaborating with technology firms to develop tamper-proof security features such as digital signatures and advanced encryption algorithms. Additionally, the demand for contactless travel solutions has surged post-pandemic, further boosting the adoption of e-passports with touchless authentication capabilities. As a result, airport authorities and border control agencies are investing in infrastructure upgrades to accommodate automated e-gates and biometric verification systems. The e-passport market is expected to evolve with the integration of blockchain technology and decentralized identity solutions. Blockchain-based passports could offer enhanced security, eliminating the risk of identity theft and unauthorized alterations. Governments are anticipated to move toward fully digital travel documents, reducing dependency on physical passports. Additionally, advancements in artificial intelligence will enable predictive analytics for immigration control, allowing authorities to detect anomalies in travel patterns and enhance security measures. The rise of smart borders and digital identity ecosystems will further drive investments in next-generation e-passport infrastructure. With international travel expected to grow, interoperability between different countries' biometric systems will be a key focus area. As the market matures, e-passports will not only serve as travel documents but also facilitate seamless authentication across banking, healthcare, and public services.

Key Insights E-Passport Market

Adoption of Blockchain for Secure Identity Management: Blockchain technology is emerging as a game-changer for e-passport security, offering decentralized identity verification that reduces risks of data breaches and identity fraud.

Integration of AI-Powered Biometric Authentication: Artificial intelligence is enhancing facial recognition and fingerprint verification, improving the accuracy of identity verification and enabling real-time fraud detection.

Expansion of Contactless Border Control Solutions: With a growing focus on seamless travel, airports and border control agencies are implementing contactless verification systems, reducing the need for manual passport checks.

Rise of Mobile-Based Digital Passports: Governments are exploring mobile-based e-passports that allow citizens to store their travel credentials digitally,

reducing reliance on physical documents.

Interoperability of Biometric Systems Across Countries: Standardization efforts are being made to ensure global interoperability of biometric authentication systems, allowing smoother cross-border travel experiences.

Growing Emphasis on Border Security and Fraud Prevention: Governments worldwide are investing in biometric-based e-passports to combat identity fraud and improve border control efficiency.

Increase in International Travel and Smart Airport Initiatives: The rising number of international travelers is driving demand for e-passports that facilitate fast and secure processing at immigration checkpoints.

Technological Advancements in Biometric Identification: Innovations in facial recognition, iris scanning, and NFC-enabled verification are enhancing the functionality and security of e-passports.

Government Mandates for Digital Identity Programs: Regulatory frameworks are promoting the adoption of e-passports as part of broader digital identity initiatives, driving market growth globally.

Cybersecurity Risks and Data Privacy Concerns: As e-passports rely on digital data storage and wireless communication, they are vulnerable to cyber threats, hacking attempts, and unauthorized access, raising concerns about data privacy and security.

E-Passport Market Segmentation

By Components

Hardware

Software

Services

By Security

Basic Access Control

Password Authentication Connection Establishment

Supplement Access Control

By Technology

Radio Frequency Identification

Biometrics

By Application

Business Travel

Leisure Travel

Key Companies Analysed

3M

Safran SA

Thales Group

Infineon Technologies Ag

NXP Semiconductors N.V.

ASSA ABLOY AB

Zebra Technologies Corporation

Giesecke & Devrient GmbH

Gemalto N.V.

IDEMIA

Entrust Datacard Corporation

HID Global Corporation

Entrust Inc.

Iris Corporate Solutions Private Limited

Bundesdruckerei GmbH

Muhlbauer Group

De La Rue Plc

Zetes Industries SA

Eastcompeace Technology Co. Ltd.

4G Identity Solutions Pvt. Ltd.

Utimaco IS GmbH

Veridos GmbH

Dermalog Identification Systems

Techno Brain Group

Cognitec Systems GmbH

Ask Media Group LLC

Innovatrics

Primekey Solutions AB

CardLogix Corporation

IDEX Biometrics

E-Passport 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.

E-Passport 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 — E-Passport market data and outlook to 2034

United States

Canada

Mexico

Europe — E-Passport market data and outlook to 2034

Germany

United Kingdom

France

Italy

Spain

BeNeLux

Russia

Sweden

Asia-Pacific — E-Passport market data and outlook to 2034

China

Japan

India

South Korea

Australia

Indonesia

Malaysia

Vietnam

Middle East and Africa — E-Passport market data and outlook to 2034

Saudi Arabia

South Africa

Iran

UAE

Egypt

South and Central America — E-Passport 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 E-Passport 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 E-Passport 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 E-Passport Market Report

Global E-Passport market size and growth projections (CAGR), 2024-2034

Impact of Russia-Ukraine, Israel-Palestine, and Hamas conflicts on E-Passport trade, costs, and supply chains

E-Passport market size, share, and outlook across 5 regions and 27 countries, 2023-2034

E-Passport market size, CAGR, and market share of key products, applications, and end-user verticals, 2023-2034

Short- and long-term E-Passport market trends, drivers, restraints, and opportunities

Porter’s Five Forces analysis, technological developments, and E-Passport supply chain analysis

E-Passport trade analysis, E-Passport market price analysis, and E-Passport

supply/demand dynamics

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

Latest E-Passport 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*

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