

# Digital Product Passport Software Market - Global Industry Size, Share, Trends, Opportunity, and Forecast Segmented By Deployment (Cloud-based, On-premises), By Enterprise Size (Small Enterprises, Medium-sized Enterprise, Large Enterprises, Very Large Enterprises), By Industry (Retail, Logistics, Chemical, Automotive, Healthcare, Others), By Region & Competition, 2021-2031F

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## Abstracts

The Global Digital Product Passport Software Market is projected to experience substantial growth, rising from USD 601.75 Million in 2025 to USD 1822.12 Million by 2031, achieving a CAGR of 20.28%. This software serves as a centralized hub for gathering, archiving, and disseminating detailed product lifecycle information, covering everything from raw material sources to end-of-life disposal guidelines. The market is primarily fueled by strict regulatory requirements, such as the European Union's Ecodesign for Sustainable Products Regulation, alongside a growing corporate imperative to enhance supply chain transparency in support of circular economy efforts. The financial risks associated with non-compliance are severe; GS1 UK indicates that in 2025, companies exporting to the EU face a potential annual revenue loss of approximately \$1.5 million if they fail to adhere to these new passport standards.

A major obstacle hindering faster market growth is the technical complexity of establishing data interoperability across disjointed global supply chains. Stakeholders frequently rely on incompatible legacy systems, which complicates the smooth aggregation and verification of granular product data. This absence of standardization results in significant implementation hurdles and escalated costs, creating particular

difficulties for organizations striving to unify a diverse range of suppliers into a cohesive digital ecosystem.

## **Market Driver**

The enforcement of strict regulatory frameworks regarding product sustainability acts as the main engine driving the Global Digital Product Passport Software Market.

Governments are progressively transitioning from voluntary guidelines to mandatory compliance systems, forcing industries to implement centralized software for detailed lifecycle reporting. As noted by BASE in an August 2025 article regarding EU battery regulations, Regulation (EU 2023/1542) completely superseded prior directives as of August 18, 2025, establishing consistent passport standards across all EU markets and requiring digital records for industrial and EV batteries by 2027. This legislative evolution creates an urgent, unavoidable need for software platforms capable of compiling complex upstream data to secure market access and prevent punitive exclusion.

Simultaneously, the rapid shift toward circular economy models is transforming the market from one focused solely on compliance to one centered on value retention and revenue creation. Digital Product Passports enable manufacturers to access post-sale value through resale, repair, and recycling by offering verifiable proof of origin and material quality. A June 2025 report by Bain & Company highlights that a high-end fashion item sold for \$500 could yield an additional \$500 in secondary services and resale when supported by a digital passport, effectively doubling its economic lifespan. This capacity is crucial for rebuilding market trust; with the Capgemini Research Institute finding in 2024 that 52% of consumers suspect organizations of greenwashing, the verifiable traceability provided by these solutions becomes essential for authenticating sustainability claims.

## **Market Challenge**

The technical complexity involved in establishing data interoperability across fragmented global supply chains represents a severe hurdle to the expansion of the Global Digital Product Passport Software Market. These passports demand the smooth aggregation of specific lifecycle data from a wide variety of stakeholders, extending from raw material miners to end-stage recyclers. However, these participants frequently utilize incompatible legacy systems or proprietary platforms that lack the ability to communicate effectively with one another. This absence of standardization generates extensive data silos, rendering the verification of product composition and origin both

technically difficult and financially prohibitive for companies trying to expand their sustainability programs.

This pervasive lack of connectivity directly impedes market growth by delaying the rollout of passport mandates. Without a common digital language, enterprises find it difficult to obtain the tier-level data required for regulatory compliance. According to GS1 US, nearly 43% of supply chain professionals acknowledged in 2024 that they struggle to maintain complete visibility across their operations. This figure highlights the magnitude of the infrastructure gap; as long as a substantial segment of the industry remains unable to transparently track products throughout their networks, the uptake of comprehensive passport software is destined to remain sluggish and fragmented.

## **Market Trends**

The integration of Blockchain for Immutable Data Verification is quickly becoming a core architectural element of Digital Product Passport software, motivated by the necessity to protect high-value supply chains from counterfeiting. This trend involves the use of decentralized ledgers that offer undeniable proof of origin, establishing a level of trust that centralized databases are unable to replicate. The luxury industry is at the forefront of this adoption to safeguard brand equity and enable secure resale markets. In September 2024, the Aura Blockchain Consortium announced a major milestone, having registered over 50 million products on its private blockchain, which validates the significant scale at which immutable data verification is being utilized to guarantee lifecycle transparency.

Concurrently, the implementation of the GS1 Digital Link for Universal Scannability is transforming the market by moving the industry from traditional 1D barcodes to web-enabled 2D QR codes. This structural evolution resolves data fragmentation issues by enabling stakeholders to access detailed passport information instantly via a standardized interface, thereby removing the requirement for proprietary scanning equipment. The acceptance of this interoperable standard is spreading from physical retail into digital commerce environments. According to a GS1 review in October 2025, engagement with online marketplaces regarding these global standards has surged to include 102 platforms worldwide, illustrating the pivotal role of universal connectivity in expanding digital product passport infrastructure.

## **Key Market Players**

%li%Billion Group Limited

%li%DNV AS

%li%iPoint-systems GmbH

%li%LyondellBasell Industries N.V.

%li%Kezzler AS.

%li%Narravero GmbH

%li%Qliktag Software Inc.

%li%Spherity GmbH

%li%Scantrust S.A.

%li%Optel Group

## **Report Scope**

In this report, the Global Digital Product Passport Software Market has been segmented into the following categories, in addition to the industry trends which have also been detailed below:

%li%Digital Product Passport Software Market, By Deployment

%li%%li%Cloud-based

%li%%li%On-premises

%li%Digital Product Passport Software Market, By Enterprise Size

%li%%li%Small Enterprises

%li%%li%Medium-sized Enterprise

%li%%li%Large Enterprises

- Very Large Enterprises

- Digital Product Passport Software Market, By Industry

- Retail

- Logistics

- Chemical

- Automotive

- Healthcare

- Others

- Digital Product Passport Software Market, By Region

- North America

- United States

- Canada

- Mexico

- Europe

- France

- United Kingdom

- Italy

- Germany

- Spain

- Asia Pacific

%li%%li%%li%%li%China

%li%%li%%li%%li%India

%li%%li%%li%%li%Japan

%li%%li%%li%%li%Australia

%li%%li%%li%%li%South Korea

%li%%li%%li%%li%South America

%li%%li%%li%%li%Brazil

%li%%li%%li%%li%Argentina

%li%%li%%li%%li%Colombia

%li%%li%%li%%li%Middle East & Africa

%li%%li%%li%%li%South Africa

%li%%li%%li%%li%Saudi Arabia

%li%%li%%li%%li%UAE

## **Competitive Landscape**

Company Profiles: Detailed analysis of the major companies present in the Global Digital Product Passport Software Market.

## **Available Customizations:**

Global Digital Product Passport Software Market report with the given market data, TechSci Research offers customizations according to a company's specific needs. The following customization options are available for the report:

## **Company Information**

*Digital Product Passport Software Market - Global Industry Size, Share, Trends, Opportunity, and Forecast Segm...*

%li%Detailed analysis and profiling of additional market players (up to five).

## Contents

### **1. PRODUCT OVERVIEW**

- 1.1. Market Definition
- 1.2. Scope of the Market
  - 1.2.1. Markets Covered
  - 1.2.2. Years Considered for Study
  - 1.2.3. Key Market Segmentations

### **2. RESEARCH METHODOLOGY**

- 2.1. Objective of the Study
- 2.2. Baseline Methodology
- 2.3. Key Industry Partners
- 2.4. Major Association and Secondary Sources
- 2.5. Forecasting Methodology
- 2.6. Data Triangulation & Validation
- 2.7. Assumptions and Limitations

### **3. EXECUTIVE SUMMARY**

- 3.1. Overview of the Market
- 3.2. Overview of Key Market Segmentations
- 3.3. Overview of Key Market Players
- 3.4. Overview of Key Regions/Countries
- 3.5. Overview of Market Drivers, Challenges, Trends

### **4. VOICE OF CUSTOMER**

### **5. GLOBAL DIGITAL PRODUCT PASSPORT SOFTWARE MARKET OUTLOOK**

- 5.1. Market Size & Forecast
  - 5.1.1. By Value
- 5.2. Market Share & Forecast
  - 5.2.1. By Deployment (Cloud-based, On-premises)
  - 5.2.2. By Enterprise Size (Small Enterprises, Medium-sized Enterprise, Large Enterprises, Very Large Enterprises)
  - 5.2.3. By Industry (Retail, Logistics, Chemical, Automotive, Healthcare, Others)

- 5.2.4. By Region
- 5.2.5. By Company (2025)
- 5.3. Market Map

## **6. NORTH AMERICA DIGITAL PRODUCT PASSPORT SOFTWARE MARKET OUTLOOK**

- 6.1. Market Size & Forecast
  - 6.1.1. By Value
- 6.2. Market Share & Forecast
  - 6.2.1. By Deployment
  - 6.2.2. By Enterprise Size
  - 6.2.3. By Industry
  - 6.2.4. By Country
- 6.3. North America: Country Analysis
  - 6.3.1. United States Digital Product Passport Software Market Outlook
    - 6.3.1.1. Market Size & Forecast
      - 6.3.1.1.1. By Value
    - 6.3.1.2. Market Share & Forecast
      - 6.3.1.2.1. By Deployment
      - 6.3.1.2.2. By Enterprise Size
      - 6.3.1.2.3. By Industry
  - 6.3.2. Canada Digital Product Passport Software Market Outlook
    - 6.3.2.1. Market Size & Forecast
      - 6.3.2.1.1. By Value
    - 6.3.2.2. Market Share & Forecast
      - 6.3.2.2.1. By Deployment
      - 6.3.2.2.2. By Enterprise Size
      - 6.3.2.2.3. By Industry
  - 6.3.3. Mexico Digital Product Passport Software Market Outlook
    - 6.3.3.1. Market Size & Forecast
      - 6.3.3.1.1. By Value
    - 6.3.3.2. Market Share & Forecast
      - 6.3.3.2.1. By Deployment
      - 6.3.3.2.2. By Enterprise Size
      - 6.3.3.2.3. By Industry

## **7. EUROPE DIGITAL PRODUCT PASSPORT SOFTWARE MARKET OUTLOOK**

- 7.1. Market Size & Forecast
  - 7.1.1. By Value
- 7.2. Market Share & Forecast
  - 7.2.1. By Deployment
  - 7.2.2. By Enterprise Size
  - 7.2.3. By Industry
  - 7.2.4. By Country
- 7.3. Europe: Country Analysis
  - 7.3.1. Germany Digital Product Passport Software Market Outlook
    - 7.3.1.1. Market Size & Forecast
      - 7.3.1.1.1. By Value
    - 7.3.1.2. Market Share & Forecast
      - 7.3.1.2.1. By Deployment
      - 7.3.1.2.2. By Enterprise Size
      - 7.3.1.2.3. By Industry
  - 7.3.2. France Digital Product Passport Software Market Outlook
    - 7.3.2.1. Market Size & Forecast
      - 7.3.2.1.1. By Value
    - 7.3.2.2. Market Share & Forecast
      - 7.3.2.2.1. By Deployment
      - 7.3.2.2.2. By Enterprise Size
      - 7.3.2.2.3. By Industry
  - 7.3.3. United Kingdom Digital Product Passport Software Market Outlook
    - 7.3.3.1. Market Size & Forecast
      - 7.3.3.1.1. By Value
    - 7.3.3.2. Market Share & Forecast
      - 7.3.3.2.1. By Deployment
      - 7.3.3.2.2. By Enterprise Size
      - 7.3.3.2.3. By Industry
  - 7.3.4. Italy Digital Product Passport Software Market Outlook
    - 7.3.4.1. Market Size & Forecast
      - 7.3.4.1.1. By Value
    - 7.3.4.2. Market Share & Forecast
      - 7.3.4.2.1. By Deployment
      - 7.3.4.2.2. By Enterprise Size
      - 7.3.4.2.3. By Industry
  - 7.3.5. Spain Digital Product Passport Software Market Outlook
    - 7.3.5.1. Market Size & Forecast
      - 7.3.5.1.1. By Value

- 7.3.5.2. Market Share & Forecast
  - 7.3.5.2.1. By Deployment
  - 7.3.5.2.2. By Enterprise Size
  - 7.3.5.2.3. By Industry

## **8. ASIA PACIFIC DIGITAL PRODUCT PASSPORT SOFTWARE MARKET OUTLOOK**

- 8.1. Market Size & Forecast
  - 8.1.1. By Value
- 8.2. Market Share & Forecast
  - 8.2.1. By Deployment
  - 8.2.2. By Enterprise Size
  - 8.2.3. By Industry
  - 8.2.4. By Country
- 8.3. Asia Pacific: Country Analysis
  - 8.3.1. China Digital Product Passport Software Market Outlook
    - 8.3.1.1. Market Size & Forecast
      - 8.3.1.1.1. By Value
    - 8.3.1.2. Market Share & Forecast
      - 8.3.1.2.1. By Deployment
      - 8.3.1.2.2. By Enterprise Size
      - 8.3.1.2.3. By Industry
  - 8.3.2. India Digital Product Passport Software Market Outlook
    - 8.3.2.1. Market Size & Forecast
      - 8.3.2.1.1. By Value
    - 8.3.2.2. Market Share & Forecast
      - 8.3.2.2.1. By Deployment
      - 8.3.2.2.2. By Enterprise Size
      - 8.3.2.2.3. By Industry
  - 8.3.3. Japan Digital Product Passport Software Market Outlook
    - 8.3.3.1. Market Size & Forecast
      - 8.3.3.1.1. By Value
    - 8.3.3.2. Market Share & Forecast
      - 8.3.3.2.1. By Deployment
      - 8.3.3.2.2. By Enterprise Size
      - 8.3.3.2.3. By Industry
  - 8.3.4. South Korea Digital Product Passport Software Market Outlook
    - 8.3.4.1. Market Size & Forecast
      - 8.3.4.1.1. By Value

- 8.3.4.2. Market Share & Forecast
  - 8.3.4.2.1. By Deployment
  - 8.3.4.2.2. By Enterprise Size
  - 8.3.4.2.3. By Industry
- 8.3.5. Australia Digital Product Passport Software Market Outlook
  - 8.3.5.1. Market Size & Forecast
    - 8.3.5.1.1. By Value
  - 8.3.5.2. Market Share & Forecast
    - 8.3.5.2.1. By Deployment
    - 8.3.5.2.2. By Enterprise Size
    - 8.3.5.2.3. By Industry

## **9. MIDDLE EAST & AFRICA DIGITAL PRODUCT PASSPORT SOFTWARE MARKET OUTLOOK**

- 9.1. Market Size & Forecast
  - 9.1.1. By Value
- 9.2. Market Share & Forecast
  - 9.2.1. By Deployment
  - 9.2.2. By Enterprise Size
  - 9.2.3. By Industry
  - 9.2.4. By Country
- 9.3. Middle East & Africa: Country Analysis
  - 9.3.1. Saudi Arabia Digital Product Passport Software Market Outlook
    - 9.3.1.1. Market Size & Forecast
      - 9.3.1.1.1. By Value
    - 9.3.1.2. Market Share & Forecast
      - 9.3.1.2.1. By Deployment
      - 9.3.1.2.2. By Enterprise Size
      - 9.3.1.2.3. By Industry
  - 9.3.2. UAE Digital Product Passport Software Market Outlook
    - 9.3.2.1. Market Size & Forecast
      - 9.3.2.1.1. By Value
    - 9.3.2.2. Market Share & Forecast
      - 9.3.2.2.1. By Deployment
      - 9.3.2.2.2. By Enterprise Size
      - 9.3.2.2.3. By Industry
  - 9.3.3. South Africa Digital Product Passport Software Market Outlook
    - 9.3.3.1. Market Size & Forecast

9.3.3.1.1. By Value

9.3.3.2. Market Share & Forecast

9.3.3.2.1. By Deployment

9.3.3.2.2. By Enterprise Size

9.3.3.2.3. By Industry

## **10. SOUTH AMERICA DIGITAL PRODUCT PASSPORT SOFTWARE MARKET OUTLOOK**

10.1. Market Size & Forecast

10.1.1. By Value

10.2. Market Share & Forecast

10.2.1. By Deployment

10.2.2. By Enterprise Size

10.2.3. By Industry

10.2.4. By Country

10.3. South America: Country Analysis

10.3.1. Brazil Digital Product Passport Software Market Outlook

10.3.1.1. Market Size & Forecast

10.3.1.1.1. By Value

10.3.1.2. Market Share & Forecast

10.3.1.2.1. By Deployment

10.3.1.2.2. By Enterprise Size

10.3.1.2.3. By Industry

10.3.2. Colombia Digital Product Passport Software Market Outlook

10.3.2.1. Market Size & Forecast

10.3.2.1.1. By Value

10.3.2.2. Market Share & Forecast

10.3.2.2.1. By Deployment

10.3.2.2.2. By Enterprise Size

10.3.2.2.3. By Industry

10.3.3. Argentina Digital Product Passport Software Market Outlook

10.3.3.1. Market Size & Forecast

10.3.3.1.1. By Value

10.3.3.2. Market Share & Forecast

10.3.3.2.1. By Deployment

10.3.3.2.2. By Enterprise Size

10.3.3.2.3. By Industry

## **11. MARKET DYNAMICS**

- 11.1. Drivers
- 11.2. Challenges

## **12. MARKET TRENDS & DEVELOPMENTS**

- 12.1. Merger & Acquisition (If Any)
- 12.2. Product Launches (If Any)
- 12.3. Recent Developments

## **13. GLOBAL DIGITAL PRODUCT PASSPORT SOFTWARE MARKET: SWOT ANALYSIS**

## **14. PORTER'S FIVE FORCES ANALYSIS**

- 14.1. Competition in the Industry
- 14.2. Potential of New Entrants
- 14.3. Power of Suppliers
- 14.4. Power of Customers
- 14.5. Threat of Substitute Products

## **15. COMPETITIVE LANDSCAPE**

- 15.1. Billion Group Limited
  - 15.1.1. Business Overview
  - 15.1.2. Products & Services
  - 15.1.3. Recent Developments
  - 15.1.4. Key Personnel
  - 15.1.5. SWOT Analysis
- 15.2. DNV AS
- 15.3. iPoint-systems GmbH
- 15.4. LyondellBasell Industries N.V.
- 15.5. Kezzler AS.
- 15.6. Narravero GmbH
- 15.7. Qliktag Software Inc.
- 15.8. Spherity GmbH
- 15.9. Scantrust S.A.
- 15.10. Optel Group

## **16. STRATEGIC RECOMMENDATIONS**

## **17. ABOUT US & DISCLAIMER**

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