

Global Digital Product Passport (DPP) Market Size Study, by Offering (Software, Services), by Focus Area (Sustainability, Circular Economy, Compliance), by Lifecycle Stage (Manufacturing, Distribution, Usage, End-of-Life), by End User (Fashion & Textiles, Electronics, Automotive, Others), and Regional Forecasts 2022-2032

https://marketpublishers.com/r/G7174B5DF162EN.html

Date: March 2025

Pages: 285

Price: US\$ 3,218.00 (Single User License)

ID: G7174B5DF162EN

Abstracts

The global Digital Product Passport (DPP) market is poised for substantial expansion, with its valuation projected to grow from USD 127.59 million in 2023 to USD 3775.31 million by 2032, reflecting an impressive CAGR of 45.7% over the forecast period. Digital Product Passports (DPPs) represent a revolutionary innovation that ensures transparency, traceability, and regulatory compliance throughout a product's lifecycle. This emerging digital framework, backed by blockchain, IoT, and AI-driven analytics, facilitates the seamless integration of sustainability and circular economy principles across various industries.

The rapidly evolving regulatory landscape—particularly in Europe and North America—is a primary catalyst for DPP adoption. The EU Ecodesign for Sustainable Products Regulation (ESPR) and EU Battery Regulation mandate end-to-end lifecycle tracking for industries such as automotive, electronics, and textiles, driving market penetration. Meanwhile, corporate sustainability initiatives are accelerating DPP integration, with major fashion brands like Stella McCartney, Adidas, and Burberry leveraging digital tracking mechanisms to ensure authenticity, ethical sourcing, and recyclability. Beyond compliance, consumer preferences for sustainable, ethically sourced products are compelling businesses to adopt DPP-based transparency solutions.



The distribution segment is anticipated to exhibit the fastest growth rate during the forecast period, fueled by supply chain complexities, counterfeit prevention, and cross-border regulatory compliance. Blockchain-powered DPPs offer real-time authentication and tracking for pharmaceuticals, luxury goods, and high-value electronics, mitigating risks related to fraudulent activities and unauthorized distribution. Moreover, battery passports in the automotive sector are gaining traction, enabling compliance with EV sustainability frameworks and carbon footprint reduction mandates.

The fashion & textiles industry will continue to dominate the DPP market in 2024 and beyond, due to stringent sustainability regulations and growing consumer expectations for transparency. The EU Strategy for Sustainable and Circular Textiles compels manufacturers to disclose material composition, production processes, and recycling potential. Additionally, luxury brands are deploying DPP-based authentication to combat counterfeiting, with Burberry and Prada integrating blockchain-backed digital records to verify the provenance of organic cotton, sustainable leather, and recycled fabrics.

Regionally, Europe leads the Digital Product Passport market, driven by robust policy enforcement and corporate sustainability programs. However, Asia-Pacific is poised to emerge as the second-largest market, with countries like China, Japan, and South Korea investing heavily in DPP solutions for supply chain traceability and sustainability compliance. Notably, Chinese tech giants like Huawei are implementing blockchain-based DPP systems in electronics, while Toyota and Hyundai are leveraging lifecycle tracking for EV batteries to align with global decarbonization targets.

Major Market Players Included in This Report:

Siemens (Germany)

Circulor (UK)

Kezzler (Norway)

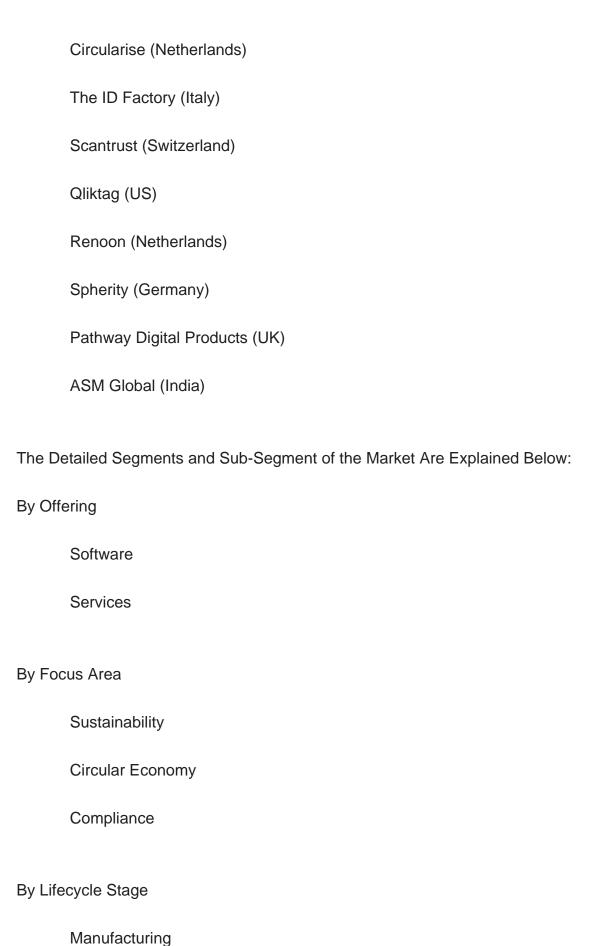
iPoint-systems (Germany)

DNV (US)

Optel Group (Canada)

Arianee (France)

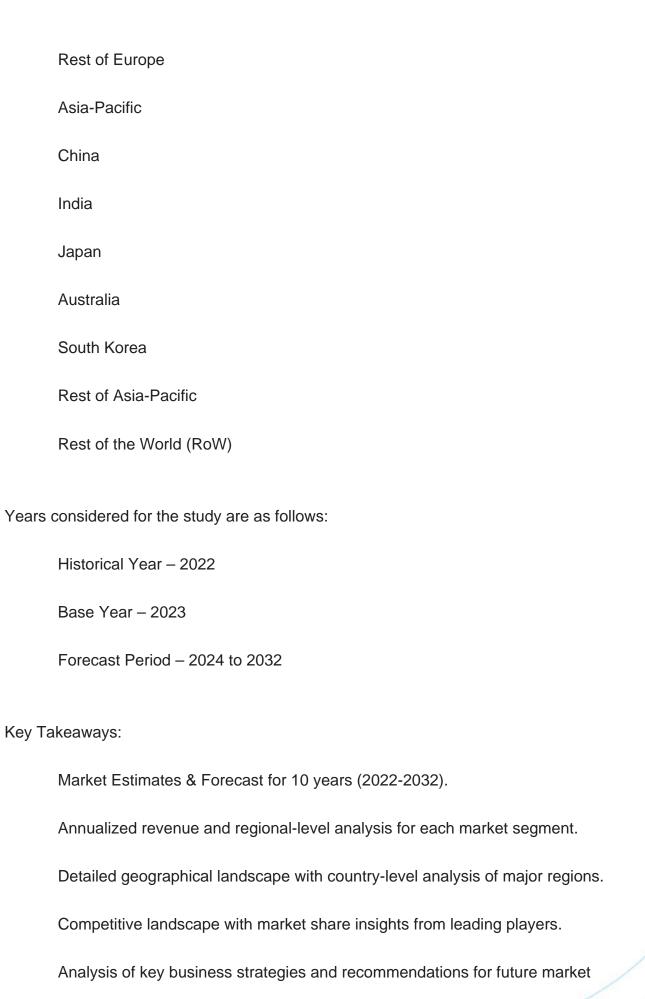






	Distribution
	Usage
	End-of-Life
By End User	
	Fashion & Textiles
	Electronics
	Automotive
	Others
By Region	
	North America
	U.S.
	Canada
	Europe
	UK
	Germany
	France
	Italy
	Spain







positioning.

Competitive structure evaluation with SWOT analysis of major companies.

Demand-side and supply-side assessment of the market.



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