

# Global Eco-Friendly RFID Tags Supply, Demand and Key Producers, 2026-2032

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## Abstracts

The global Eco-Friendly RFID Tags market size is expected to reach \$ 968 million by 2032, rising at a market growth of 9.4% CAGR during the forecast period (2026-2032).

Eco-Friendly RFID Tags refer to RFID tag products that, while meeting the functional and performance requirements of radio frequency identification (RFID), aim to reduce environmental impact and enhance sustainability as their core design goals. These tags systematically reduce the environmental burden through material selection, structural design, manufacturing processes, usage methods, and end-of-life recycling, and are compatible with existing recycling systems and sustainable supply chains.

In 2025, global Eco-Friendly RFID Tags production reached approximately 11.3 billion units, with an average global market price of around US\$ 0.045 per unit.

## Gross Profit Margin Levels

The gross profit structure of environmentally friendly RFID tags typically exhibits a tiered characteristic: 'relatively low profit margins for upstream inlays, and higher margins for downstream conversion and solution integration.' For basic UHF inlays/labels, with large customer bulk purchases and price reductions, the industry leans towards scale competition, resulting in low to medium gross profit margins. However, when environmental solutions incorporate paper-based plastic-free layers, separable structures, recyclable and compatible adhesives, low-carbon materials, and compliance certifications (carbon footprint disclosure, recycling system matching), products upgrade from 'standardized devices' to 'materials + processes + compliant delivery,' increasing unit price and bargaining power, and shifting gross profit margins towards the mid-to-high range. Meanwhile, the segments that truly significantly boost gross profit margins

often come from tag conversion (printing/lamination/die-cutting/encoding), integration with brand recycling systems/Digital Product Passport (DPP) data links, and high-barrier applications such as food recycling packaging—these segments emphasize project delivery and service stickiness, thus offering significantly better profitability than pure inlay shipments.

## Industry Drivers

The core driving force behind the growth of environmentally friendly RFID tags is expanding from 'visibility and efficiency' to a dual-engine approach of 'compliance and sustainability.' On the one hand, retail apparel remains the largest driver of UHF tag deployment, with nearly 32 billion tags deployed in the apparel sector by 2025. Combined with logistics becoming the second largest UHF application (accounting for approximately 15% of tags), this provides ample application scenarios and cost reduction opportunities for innovation in environmentally friendly materials and structures. On the other hand, regulatory trends such as the Digital Product Passport (DPP) being implemented in Europe and other regions (starting in 2026 for some product categories) are making 'single-item traceability + recyclability/carbon information' a necessity, forcing brands and supply chains to choose RFID tag solutions that are easier to recycle, reduce plastic use, and are lower in carbon emissions. With the added demands of brand ESG/KPI, packaging plastic reduction and circular economy, as well as the improvement of suppliers' product lines in paper-based plastic-free, low carbon footprint and recyclability compatibility (such as sustainable inlay/label family, paper-based ECO RFID, etc.), the penetration rate of environmentally friendly RFID tags is expected to continue to increase and maintain a higher growth rate than the overall RFID device sector from 2025 to 2030.

This report studies the global Eco-Friendly RFID Tags production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Eco-Friendly RFID Tags and provides market size (US\$ million) and Year-over-Year (YoY) Growth, considering 2025 as the base year. This report explores demand trends and competition, as well as details the characteristics of Eco-Friendly RFID Tags that contribute to its increasing demand across many markets.

## Highlights and key features of the study

Global Eco-Friendly RFID Tags total production and demand, 2021-2032, (K Units)

Global Eco-Friendly RFID Tags total production value, 2021-2032, (USD Million)

Global Eco-Friendly RFID Tags production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (K Units), (based on production site)

Global Eco-Friendly RFID Tags consumption by region & country, CAGR, 2021-2032 & (K Units)

U.S. VS China: Eco-Friendly RFID Tags domestic production, consumption, key domestic manufacturers and share

Global Eco-Friendly RFID Tags production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (K Units)

Global Eco-Friendly RFID Tags production by Type, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

Global Eco-Friendly RFID Tags production by Application, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

This report profiles key players in the global Eco-Friendly RFID Tags market based on the following parameters - company overview, production, value, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Avery Dennison, Trimco Group, SML Group, Beontag, SATO, Xindex IoT, Tagueos, Etisoft, OSRFID, Hangzhou Century, etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the World Eco-Friendly RFID Tags market

### **Detailed Segmentation:**

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (K Units) and average price (US\$/Unit) by manufacturer, by Type, and by Application. Data is given for the years 2021-2032 by year with 2025 as the base year, 2026 as the estimate year, and 2027-2032 as the

forecast year.

#### Global Eco-Friendly RFID Tags Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

#### Global Eco-Friendly RFID Tags Market, Segmentation by Type:

Paper-based Type

Biodegradable/Compostable Type

Others

#### Global Eco-Friendly RFID Tags Market, Segmentation by Product:

Active RFID Tags

Passive RFID Tags

#### Global Eco-Friendly RFID Tags Market, Segmentation by Frequency:

HF

UHF

Others

#### Global Eco-Friendly RFID Tags Market, Segmentation by Application:

Retail and Apparel

Industrial Manufacturing

Logistics and Transportation

Healthcare and Pharmaceuticals

Others

#### Companies Profiled:

Avery Dennison

Trimco Group

SML Group

Beontag

SATO

Xindec IoT

Tageos

Etisoft

OSRFID

Hangzhou Century

GAO RFID

Identiv

Talkin' Things

JYL-Tech

**Key Questions Answered:**

1. How big is the global Eco-Friendly RFID Tags market?
2. What is the demand of the global Eco-Friendly RFID Tags market?
3. What is the year over year growth of the global Eco-Friendly RFID Tags market?
4. What is the production and production value of the global Eco-Friendly RFID Tags market?
5. Who are the key producers in the global Eco-Friendly RFID Tags market?
6. What are the growth factors driving the market demand?

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