

UHF RFID (RAIN) Market Size and Forecast (2021 - 2031), Global and Regional Share, Trend, and Growth Opportunity Analysis Report Coverage: By Component (Hardware, Software, and Services), Application (Retail and Commerce Goods, Logistics and Transportation, Manufacturing, Healthcare, Automotive, Aerospace and Defense, and Others), and Geography

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Abstracts

UHF RFID (RAIN) Market Size and Forecast (2023-2031), Global and Regional Share, Trends, and Growth Opportunity Analysis - Component (Hardware, Software and Services), Application (Retail and Commerce Goods, Logistics and Transportation, Manufacturing, Healthcare, Automotive, Aerospace and Defense and Others)

The UHF RFID (RAIN) market size is expected to reach US\$ 14.07 billion by 2031 from 4.62 billion in 2024, at an estimated CAGR of 17.9% from 2025 to 2031.

By Geography the UHF RFID (RAIN) market is segmented into North America, Europe, Asia Pacific, Middle East and Africa, and South and Central America. In 2024, Europe held a significant share in the market. The UHF RFID (RAIN) market in Europe is segmented into the UK, Germany, France, Italy, Russia, and the Rest of Europe. European countries exhibit diverse consumer habits as well as high internet connectivity, disposable income, and literacy levels. These factors encourage the growth of the retail sector, including e-commerce, in the region. As per a recent study, in 2023/2024, the European cross-border e-commerce market reached a staggering US\$ 351.08 billion (€ 326 billion), of which US\$ 243 billion (€ 225 billion), or 69%, was



generated by online marketplaces. Further, as per the European Commission, in the EU, during the period 2013 to 2023, the share of enterprises that had e-sales increased from 17.21% in 2013 to 23.83% in 2023. Thus, with the growing sales in the retail industry, the demand for UHF RFID is surging tremendously in Europe.

Furthermore, a decision by 11 European countries to adopt the 915-921 MHz narrow upper bandwidth has paved the way for global, universal spectrum access for UHF RAIN RFID technology developers and manufacturers. This marks a significant step toward widespread adoption, following similar decisions made by other EU nations in the past. The move effectively creates near-universal access to this bandwidth across Europe. By approving the use of RFID technology in this higher bandwidth, these European nations enable enhanced RF performance and more efficient, low-power deployments, according to the RAIN Alliance. The alliance has been advocating for the adoption of this lesser-known bandwidth across Europe over the past two years. The latest countries to join this initiative include Austria, the Czech Republic, Croatia, Latvia, Malta, Montenegro, Poland, Romania, Sweden, Serbia, and Turkey, bringing the total number of participating countries to 35.

The UHF RFID (RAIN) market analysis has been carried out by considering the following segments: Component and Application.

Based on component, the global UHF RFID (RAIN) market is segmented into hardware, software, and services. The hardware components used in the UHF RFID (RAIN) systems include tags and labels, readers, printers, antennas, etc. They provide a considerable benefit to organizations by simplifying their business processes and current internal systems, such as inventory management and the technology being used. In addition to this, enterprises can implement their data security standards that control an entire process housed within the hardware of the enterprise.

Moreover, factor such as Rising Adoption of RFID Technologies in the retail sector and soaring demand for sustainability in supply chain propel the UHF RFID (RAIN) market growth. Also, rising adoption in the automotive industry is expected to bring new UHF RFID (RAIN) market trends in the coming years.

Based on application, the UHF RFID (RAIN) market is segmented into retail and consumer goods, logistics and transportation, healthcare, manufacturing, automotive, aerospace and defense, and others. Inventory visibility and return processing are critical for omni-channel retailing. The best inventory management is given by RAIN technology to maximize revenue, minimize out-of-stock and overstock, and boost employee and



customer satisfaction. The integration of rain RFID across retail and consumer goods enables enterprises to increase inventory accuracy results, boost sales, and improve labor productivity. Haier, a leading supplier of washing machines, produces different subbrands under the broad umbrella. The long-distance transportation of heavy machines was creating problems for the company and made shipments very costly to manage. To tag their entire inventory through 200 separate warehouses, they used RAIN RFID. Similarly, Inditex implemented UHF RFID tags to tag all items in its inventory with its portfolio of stores to provide insight into the stock they have, from the factory floor to the fulfillment center, wherever it is located.

Caen RFID S.R.L; Convergence Systems Limited; Impinj, Inc.; Invengo Technology PTE. LTD.; Jadak; Lowry Solutions Inc.; Murata Manufacturing Co., Ltd.; NXP Semiconductors; SAG; and Walki Group OY; Zebra Technologies; Alien Technologies; Honeywell International Inc; Checkpoint Systems; Avery Dennison Corporation are among the key players profiled in the UHF RFID (RAIN) market report.

The UHF RFID (RAIN) market forecast is estimated on the basis of various secondary and primary research findings such as key company publications, association data, and databases. Exhaustive secondary research has been conducted using internal and external sources to obtain qualitative and quantitative information related to the UHF RFID (RAIN) market growth. The process also helps obtain an overview and forecast of the market with respect to all the market segments. Also, multiple primary interviews have been conducted with industry participants to validate the data and gain analytical insights. This process includes industry experts such as VPs, business development managers, market intelligence managers, and national sales managers, along with external consultants such as valuation experts, research analysts, and key opinion leaders, specializing in the UHF RFID (RAIN) market.

Reason to buy

Save and reduce time carrying out entry-level research by identifying the growth, size, leading players, and segments in the UHF RFID (RAIN) market.

Highlights key business priorities in order to assist companies to realign their business strategies

The key findings and recommendations highlight crucial progressive industry trends in the UHF RFID (RAIN) market, thereby allowing players across the value chain to develop effective long-term strategies



Develop/modify business expansion plans by using substantial growth offering developed and emerging markets

Scrutinize in-depth market trends and outlook coupled with the factors driving the market, as well as those hindering it

Enhance the decision-making process by understanding the strategies that underpin commercial interest with respect to client products, segmentation, pricing and distribution



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