

Global Radio Frequency Identification Technology Market Size Study, By Component (Tags, Antennas, Readers, Middleware), By System (Active RFID, Passive RFID), By Frequency, By Application, and Regional Forecasts 2022-2032

<https://marketpublishers.com/r/GEF878FC20C9EN.html>

Date: March 2025

Pages: 285

Price: US\$ 3,750.00 (Single User License)

ID: GEF878FC20C9EN

Abstracts

The Global Radio Frequency Identification (RFID) Technology Market is valued at approximately USD 17.36 billion in 2023 and is projected to grow with a healthy CAGR of 15.8% over the forecast period 2024-2032. RFID technology is revolutionizing industries by enabling seamless asset tracking, inventory management, and security monitoring. The proliferation of Real-Time Location Systems (RTLS), 5G connectivity, and IoT advancements has further enhanced the adoption of RFID systems across industries, including retail, healthcare, logistics, and manufacturing. The market's expansion is driven by increased demand for automation, supply chain visibility, and real-time intelligence, making RFID a cornerstone of digital transformation in asset management.

The primary components of RFID systems include tags, readers, antennas, and middleware, with RFID tags holding the largest market share. Passive RFID tags, which do not require a power source and operate on energy emitted by RFID readers, dominate the industry due to their affordability and ease of integration. However, active RFID tags, which come with an independent power source, are gaining traction in applications requiring real-time tracking and monitoring. Additionally, the increasing adoption of Ultra-High Frequency (UHF) RFID systems in sectors such as retail, pharmaceuticals, and automotive is expected to fuel market growth.

Despite the market's promising trajectory, several challenges must be addressed, including the high initial implementation costs and data security concerns. Businesses,

particularly small and medium enterprises (SMEs), often struggle with the capital investment required for RFID infrastructure. However, advancements in low-cost RFID solutions, printed RFID tags, and cloud-based middleware are making these systems more accessible. Moreover, government regulations mandating RFID adoption in logistics, defense, and healthcare are expected to drive further market penetration.

North America holds the largest market share, attributed to widespread RFID adoption in retail, healthcare, and industrial automation. According to industry reports, over 93% of leading retailers in North America have integrated RFID technology for improved inventory management and loss prevention. The Asia-Pacific (APAC) region is projected to witness the fastest growth, driven by rising e-commerce, increasing vehicle production, and government initiatives such as India's FASTag for electronic toll collection and China's RFID-enabled warehouse logistics. Similarly, Europe's adoption of RFID technology is supported by strict regulatory compliance requirements in industries such as pharmaceuticals, automotive, and consumer goods.

Major market players included in this report are:

Honeywell International Inc.

Zebra Technologies Corp.

EVERETT DENNISON CORPORATION

Nedap

IMPINJ, INC.

NXP Semiconductors

Unitech Electronics Co., LTD.

HID Global Corporation

Invengo Information Technology Co., Ltd.

Datalogic S.p.A.

Checkpoint Systems, Inc.

Alien Technology, LLC

GAO RFID Inc.

Smartrac N.V.

Identiv, Inc.

The detailed segments and sub-segments of the market are explained below:

By Component:

Tags

Antennas

Readers

Middleware

By System:

Active RFID System

Passive RFID System

By Frequency:

Low Frequency (LF) RFID

High Frequency (HF) RFID

Ultra-High Frequency (UHF) RFID

By Application:

Retail

Financial Services

Healthcare

Industrial

Government

Transportation & Logistics

Others

By Region:**North America**

U.S.

Canada

Mexico

Europe

Germany

UK

France

Asia Pacific

China

Japan

India

South Korea

Australia

Latin America

Brazil

Middle East and Africa (MEA)

Saudi Arabia

UAE

South Africa

Years considered for the study are as follows:

Historical year – 2022

Base year – 2023

Forecast period – 2024 to 2032

Key Takeaways:

Market Estimates & Forecast for 10 years from 2022 to 2032.

Annualized revenues and regional-level analysis for each market segment.

Detailed analysis of geographical landscape with country-level analysis of major regions.

Competitive landscape with information on major players in the market.

Analysis of key business strategies and recommendations on future market approach.

Evaluation of competitive structure and market positioning.

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

Contents

CHAPTER 1. GLOBAL RADIO FREQUENCY IDENTIFICATION TECHNOLOGY MARKET EXECUTIVE SUMMARY

- 1.1. Global Radio Frequency Identification Technology Market Size & Forecast (2022-2032)
- 1.2. Regional Summary
- 1.3. Segmental Summary
 - 1.3.1. By Component
 - 1.3.2. By System
 - 1.3.3. By Frequency
 - 1.3.4. By Application
- 1.4. Key Trends
- 1.5. Recession Impact
- 1.6. Analyst Recommendation & Conclusion

CHAPTER 2. GLOBAL RADIO FREQUENCY IDENTIFICATION TECHNOLOGY MARKET DEFINITION AND RESEARCH ASSUMPTIONS

- 2.1. Research Objective
- 2.2. Market Definition
- 2.3. Research Assumptions
 - 2.3.1. Inclusion & Exclusion
 - 2.3.2. Limitations
 - 2.3.3. Supply Side Analysis
 - 2.3.3.1. Availability
 - 2.3.3.2. Infrastructure
 - 2.3.3.3. Regulatory Environment
 - 2.3.3.4. Market Competition
 - 2.3.3.5. Economic Viability (Consumer's Perspective)
 - 2.3.4. Demand Side Analysis
 - 2.3.4.1. Regulatory Frameworks
 - 2.3.4.2. Technological Advancements
 - 2.3.4.3. Environmental Considerations
 - 2.3.4.4. Consumer Awareness & Acceptance
- 2.4. Estimation Methodology
- 2.5. Years Considered for the Study
- 2.6. Currency Conversion Rates

CHAPTER 3. GLOBAL RADIO FREQUENCY IDENTIFICATION TECHNOLOGY MARKET DYNAMICS

3.1. Market Drivers

- 3.1.1. Rising Adoption of IoT and Smart Devices
- 3.1.2. Increasing Demand for Real-Time Tracking and Asset Management
- 3.1.3. Growth in Retail and E-commerce Industry Driving RFID Implementation
- 3.1.4. Government Mandates for RFID Usage in Supply Chain Management

3.2. Market Challenges

- 3.2.1. High Initial Implementation Cost
- 3.2.2. Data Privacy & Security Concerns in RFID Adoption
- 3.2.3. Limited Interoperability Between Different RFID Systems

3.3. Market Opportunities

- 3.3.1. Growing Demand for Contactless Payments and Smart Cards
- 3.3.2. Expansion of RFID in Healthcare and Pharmaceuticals
- 3.3.3. Innovations in RFID Tag Miniaturization and Durability

CHAPTER 4. GLOBAL RADIO FREQUENCY IDENTIFICATION TECHNOLOGY MARKET INDUSTRY ANALYSIS

4.1. Porter's 5 Force Model

- 4.1.1. Bargaining Power of Suppliers
- 4.1.2. Bargaining Power of Buyers
- 4.1.3. Threat of New Entrants
- 4.1.4. Threat of Substitutes
- 4.1.5. Competitive Rivalry
- 4.1.6. Futuristic Approach to Porter's 5 Force Model
- 4.1.7. Porter's 5 Force Impact Analysis

4.2. PESTEL Analysis

- 4.2.1. Political
- 4.2.2. Economical
- 4.2.3. Social
- 4.2.4. Technological
- 4.2.5. Environmental
- 4.2.6. Legal

4.3. Top Investment Opportunity

4.4. Top Winning Strategies

4.5. Disruptive Trends

- 4.6. Industry Expert Perspective
- 4.7. Analyst Recommendation & Conclusion

CHAPTER 5. GLOBAL RADIO FREQUENCY IDENTIFICATION TECHNOLOGY MARKET SIZE & FORECASTS BY COMPONENT 2022-2032

- 5.1. Segment Dashboard
- 5.2. Global Radio Frequency Identification Technology Market: Component Revenue Trend Analysis, 2022 & 2032 (USD Million)
 - 5.2.1. Tags
 - 5.2.2. Antennas
 - 5.2.3. Readers
 - 5.2.4. Middleware

CHAPTER 6. GLOBAL RADIO FREQUENCY IDENTIFICATION TECHNOLOGY MARKET SIZE & FORECASTS BY SYSTEM 2022-2032

- 6.1. Segment Dashboard
- 6.2. Global Radio Frequency Identification Technology Market: System Revenue Trend Analysis, 2022 & 2032 (USD Million)
 - 6.2.1. Active RFID
 - 6.2.2. Passive RFID

CHAPTER 7. GLOBAL RADIO FREQUENCY IDENTIFICATION TECHNOLOGY MARKET SIZE & FORECASTS BY FREQUENCY 2022-2032

- 7.1. Segment Dashboard
- 7.2. Global Radio Frequency Identification Technology Market: Frequency Revenue Trend Analysis, 2022 & 2032 (USD Million)
 - 7.2.1. Low Frequency (LF) RFID
 - 7.2.2. High Frequency (HF) RFID
 - 7.2.3. Ultra-High Frequency (UHF) RFID

CHAPTER 8. GLOBAL RADIO FREQUENCY IDENTIFICATION TECHNOLOGY MARKET SIZE & FORECASTS BY APPLICATION 2022-2032

- 8.1. Segment Dashboard
- 8.2. Global Radio Frequency Identification Technology Market: Application Revenue Trend Analysis, 2022 & 2032 (USD Million)

- 8.2.1. Retail
- 8.2.2. Financial Services
- 8.2.3. Healthcare
- 8.2.4. Industrial
- 8.2.5. Government
- 8.2.6. Transportation & Logistics
- 8.2.7. Others

CHAPTER 9. GLOBAL RADIO FREQUENCY IDENTIFICATION TECHNOLOGY MARKET SIZE & FORECASTS BY REGION 2022-2032

9.1. North America Radio Frequency Identification Technology Market

- 9.1.1. U.S. Market Breakdown
- 9.1.2. Canada Market Breakdown
- 9.1.3. Mexico Market Breakdown

9.2. Europe Radio Frequency Identification Technology Market

- 9.2.1. U.K. Market Breakdown
- 9.2.2. Germany Market Breakdown
- 9.2.3. France Market Breakdown
- 9.2.4. Italy Market Breakdown
- 9.2.5. Rest of Europe

9.3. Asia Pacific Radio Frequency Identification Technology Market

- 9.3.1. China Market Breakdown
- 9.3.2. Japan Market Breakdown
- 9.3.3. India Market Breakdown
- 9.3.4. South Korea Market Breakdown
- 9.3.5. Australia Market Breakdown
- 9.3.6. Rest of Asia Pacific

9.4. Latin America Radio Frequency Identification Technology Market

- 9.4.1. Brazil Market Breakdown
- 9.4.2. Argentina Market Breakdown
- 9.4.3. Rest of Latin America

9.5. Middle East & Africa Radio Frequency Identification Technology Market

- 9.5.1. Saudi Arabia Market Breakdown
- 9.5.2. UAE Market Breakdown
- 9.5.3. South Africa Market Breakdown
- 9.5.4. Rest of Middle East & Africa

CHAPTER 10. COMPETITIVE INTELLIGENCE

- 10.1. Key Company SWOT Analysis
 - 10.1.1. Zebra Technologies Corp.
 - 10.1.2. AVERY DENNISON CORPORATION
 - 10.1.3. Honeywell International Inc.
- 10.2. Top Market Strategies
- 10.3. Company Profiles
 - 10.3.1. Honeywell International Inc.
 - 10.3.2. Zebra Technologies Corp.
 - 10.3.3. AVERY DENNISON CORPORATION
 - 10.3.4. Nedap
 - 10.3.5. IMPINJ, INC.
 - 10.3.6. NXP Semiconductors
 - 10.3.7. Unitech Electronics Co., LTD.
 - 10.3.8. HID Global Corporation
 - 10.3.9. Invengo Information Technology Co., Ltd.
 - 10.3.10. Datalogic S.p.A.

CHAPTER 11. RESEARCH PROCESS

- 11.1. Research Process
 - 11.1.1. Data Mining
 - 11.1.2. Analysis
 - 11.1.3. Market Estimation
 - 11.1.4. Validation
 - 11.1.5. Publishing
- 11.2. Research Attributes

List Of Tables

LIST OF TABLES

- 1. GLOBAL RADIO FREQUENCY IDENTIFICATION TECHNOLOGY MARKET, REPORT SCOPE**
- 2. GLOBAL RADIO FREQUENCY IDENTIFICATION TECHNOLOGY MARKET ESTIMATES & FORECASTS BY REGION, 2022-2032 (USD MILLION/BILLION)**
- 3. GLOBAL RADIO FREQUENCY IDENTIFICATION TECHNOLOGY MARKET ESTIMATES & FORECASTS BY COMPONENT, 2022-2032 (USD MILLION/BILLION)**
- 4. GLOBAL RADIO FREQUENCY IDENTIFICATION TECHNOLOGY MARKET ESTIMATES & FORECASTS BY SYSTEM, 2022-2032 (USD MILLION/BILLION)**
- 5. GLOBAL RADIO FREQUENCY IDENTIFICATION TECHNOLOGY MARKET ESTIMATES & FORECASTS BY FREQUENCY, 2022-2032 (USD MILLION/BILLION)**
- 6. GLOBAL RADIO FREQUENCY IDENTIFICATION TECHNOLOGY MARKET ESTIMATES & FORECASTS BY APPLICATION, 2022-2032 (USD MILLION/BILLION)**
- 7. U.S. RADIO FREQUENCY IDENTIFICATION TECHNOLOGY MARKET, ESTIMATES & FORECASTS BY SEGMENT, 2022-2032 (USD MILLION/BILLION)**
- 8. CANADA RADIO FREQUENCY IDENTIFICATION TECHNOLOGY MARKET, ESTIMATES & FORECASTS BY SEGMENT, 2022-2032 (USD MILLION/BILLION)**
- 9. GERMANY RADIO FREQUENCY IDENTIFICATION TECHNOLOGY MARKET, ESTIMATES & FORECASTS BY SEGMENT, 2022-2032 (USD MILLION/BILLION)**
- 10. U.K. RADIO FREQUENCY IDENTIFICATION TECHNOLOGY MARKET, ESTIMATES & FORECASTS BY SEGMENT, 2022-2032 (USD MILLION/BILLION)**
- 11. FRANCE RADIO FREQUENCY IDENTIFICATION TECHNOLOGY MARKET, ESTIMATES & FORECASTS BY SEGMENT, 2022-2032 (USD MILLION/BILLION)**
- 12. CHINA RADIO FREQUENCY IDENTIFICATION TECHNOLOGY MARKET,**

ESTIMATES & FORECASTS BY SEGMENT, 2022-2032 (USD MILLION/BILLION)**13. JAPAN RADIO FREQUENCY IDENTIFICATION TECHNOLOGY MARKET, ESTIMATES & FORECASTS BY SEGMENT, 2022-2032 (USD MILLION/BILLION)****14. INDIA RADIO FREQUENCY IDENTIFICATION TECHNOLOGY MARKET, ESTIMATES & FORECASTS BY SEGMENT, 2022-2032 (USD MILLION/BILLION)****15. BRAZIL RADIO FREQUENCY IDENTIFICATION TECHNOLOGY MARKET, ESTIMATES & FORECASTS BY SEGMENT, 2022-2032 (USD MILLION/BILLION)****16. SAUDI ARABIA RADIO FREQUENCY IDENTIFICATION TECHNOLOGY MARKET, ESTIMATES & FORECASTS BY SEGMENT, 2022-2032 (USD MILLION/BILLION)****17. UAE RADIO FREQUENCY IDENTIFICATION TECHNOLOGY MARKET, ESTIMATES & FORECASTS BY SEGMENT, 2022-2032 (USD MILLION/BILLION)****18. SOUTH AFRICA RADIO FREQUENCY IDENTIFICATION TECHNOLOGY MARKET, ESTIMATES & FORECASTS BY SEGMENT, 2022-2032 (USD MILLION/BILLION)****19. TOP INVESTMENT POCKETS IN GLOBAL RADIO FREQUENCY IDENTIFICATION TECHNOLOGY MARKET****20. COMPETITIVE LANDSCAPE: MARKET POSITIONING OF KEY PLAYERS IN THE RADIO FREQUENCY IDENTIFICATION TECHNOLOGY MARKET**

This list is not complete; the final report contains more than 100 tables. The list may be updated in the final deliverable.

List Of Figures

LIST OF FIGURES

- 1. GLOBAL RADIO FREQUENCY IDENTIFICATION TECHNOLOGY MARKET, RESEARCH METHODOLOGY**
- 2. GLOBAL RADIO FREQUENCY IDENTIFICATION TECHNOLOGY MARKET, MARKET ESTIMATION TECHNIQUES**
- 3. GLOBAL MARKET SIZE ESTIMATES & FORECAST METHODS**
- 4. GLOBAL RADIO FREQUENCY IDENTIFICATION TECHNOLOGY MARKET, KEY TRENDS, 2023**
- 5. GLOBAL RADIO FREQUENCY IDENTIFICATION TECHNOLOGY MARKET, GROWTH PROSPECTS, 2022-2032**
- 6. GLOBAL RADIO FREQUENCY IDENTIFICATION TECHNOLOGY MARKET, PORTER'S 5 FORCES ANALYSIS**
- 7. GLOBAL RADIO FREQUENCY IDENTIFICATION TECHNOLOGY MARKET, PESTEL ANALYSIS**
- 8. GLOBAL RADIO FREQUENCY IDENTIFICATION TECHNOLOGY MARKET, VALUE CHAIN ANALYSIS**
- 9. GLOBAL RADIO FREQUENCY IDENTIFICATION TECHNOLOGY MARKET BY COMPONENT, 2022 & 2032 (USD MILLION/BILLION)**
- 10. GLOBAL RADIO FREQUENCY IDENTIFICATION TECHNOLOGY MARKET BY SYSTEM, 2022 & 2032 (USD MILLION/BILLION)**
- 11. GLOBAL RADIO FREQUENCY IDENTIFICATION TECHNOLOGY MARKET BY FREQUENCY, 2022 & 2032 (USD MILLION/BILLION)**
- 12. GLOBAL RADIO FREQUENCY IDENTIFICATION TECHNOLOGY MARKET BY APPLICATION, 2022 & 2032 (USD MILLION/BILLION)**

13. REGIONAL SNAPSHOT: GLOBAL RADIO FREQUENCY IDENTIFICATION TECHNOLOGY MARKET, 2022 & 2032

14. NORTH AMERICA RADIO FREQUENCY IDENTIFICATION TECHNOLOGY MARKET, 2022 & 2032 (USD MILLION/BILLION)

15. EUROPE RADIO FREQUENCY IDENTIFICATION TECHNOLOGY MARKET, 2022 & 2032 (USD MILLION/BILLION)

16. ASIA PACIFIC RADIO FREQUENCY IDENTIFICATION TECHNOLOGY MARKET, 2022 & 2032 (USD MILLION/BILLION)

17. LATIN AMERICA RADIO FREQUENCY IDENTIFICATION TECHNOLOGY MARKET, 2022 & 2032 (USD MILLION/BILLION)

18. MIDDLE EAST & AFRICA RADIO FREQUENCY IDENTIFICATION TECHNOLOGY MARKET, 2022 & 2032 (USD MILLION/BILLION)

19. MARKET SHARE ANALYSIS OF MAJOR PLAYERS IN GLOBAL RADIO FREQUENCY IDENTIFICATION TECHNOLOGY MARKET (2023)

20. COMPETITIVE ANALYSIS: MARKET POSITIONING OF KEY COMPANIES IN THE RADIO FREQUENCY IDENTIFICATION TECHNOLOGY INDUSTRY

This list is not complete; the final report contains more than 50 figures. The list may be updated in the final deliverable.

I would like to order

Product name: Global Radio Frequency Identification Technology Market Size Study, By Component (Tags, Antennas, Readers, Middleware), By System (Active RFID, Passive RFID), By Frequency, By Application, and Regional Forecasts 2022-2032

Product link: <https://marketpublishers.com/r/GEF878FC20C9EN.html>

Price: US\$ 3,750.00 (Single User License / Electronic Delivery)

If you want to order Corporate License or Hard Copy, please, contact our Customer Service:

info@marketpublishers.com

Payment

To pay by Credit Card (Visa, MasterCard, American Express, PayPal), please, click button on product page <https://marketpublishers.com/r/GEF878FC20C9EN.html>