

RFID: Technology, Applications, and Global Markets

Market Research Report | 2023-04-14 | 128 pages | BCC Research

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Report description:

Description

Report Scope:

This report provides an overview of the global market for RFID and analyzes market trends. Using 2021 as the base year, the report provides estimated market data for the forecast period 2022 through 2027. Revenue forecasts for this period are segmented based on component, frequency, type, application, and region.

The report also focuses on the major trends and challenges that affect the market and the competitive landscape. It explains the current market trends and provides detailed profiles of the major players and the strategies they adopt to enhance their market presence. The report estimates the size of the global RFID market in 2021 and provides projections of the expected market size through 2027.

Report Includes:

- 41 data tables and 29 additional tables
- A comprehensive overview and up-to-date analysis of the global markets for RFID (radio frequency identification) technology and applications
- Analyses of the global market trends, with historic market revenue (sales figures) for 2021, estimates for 2022, forecasts for 2023 and 2025, and projections of compound annual growth rates (CAGRs) through 2027
- Estimation of the actual market size and revenue forecast for global RFID market in USD million values, and its corresponding market share analysis based on the component, frequency, technology type, application, and region
- Updated information on market drivers and opportunities for the RFID industry, key shifts and regulations, technology specific challenges, and other demographic and macroeconomic factors affecting the global and regional market demand over the

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forecast period (2022-2027)

- Coverage of the technological, economic, and business considerations of the global RFID market, with market data analyses and growth forecasts through 2027
- Insight into the recent industry structure for RFID technologies, competitive aspects of each product segments, increasing investment on R&D activities, market growth strategies, and company revenue share analysis
- Review of the patents issued and patent applications on the RFID technology as well as technological trends and new developments in the global market over a brief period
- Identification of the major stakeholders and analysis of the company competitive landscape based on their recent developments, financial performance, and segmental revenues
- Detailed company profiles of the leading market players, including ams-OSRAM AG, ASSA Abloy AB, Avery Dennison Corp., CCL Industries Inc., Impinj Inc., and Honeywell International Inc.

Executive Summary

Summary:

Technological advancements in RFID technology, convergence of RF-based devices with other communication technologies, and growth in semi-passive and printed tags are anticipated to drive the radio frequency identification technology market growth in the coming years. Additionally, hybrid systems, pre-printed tags, and efficient memory usage are the pivotal opportunities that solution vendors are focusing on for this market. As the industry has been maturing, there have been increasing efforts for the standardization of products and frequency bands. The International Organization for Standardization (ISO), Engineering, Procurement, and Construction (EPC), and RAIN RFID, a global alliance, are some of the organizations which are projected to play an important role in this process. Intellectual property rights, well-developed supply chain, product licensing, and innovations are the key factors that are expected to shape the future of organizations over the forecast period.

RFID offers numerous benefits such as higher productivity, improved regulatory compliance, improved quality data capture, better security, and accurate and relevant management information. Moreover, recent growth and applications of RFID technology across a wide set of industries, such as retail, healthcare, transportation, and defense, among others, has spurred its adoption rate. The retail industry is at the forefront and has witnessed its technological reconnaissance with the usage of RFID tags. RFID will increasingly be one part of a whole ecosystem of sensors and communication technologies that will help organizations to better monitor and manage assets and shipments. It can potentially enable a whole host of new applications in retail, healthcare, manufacturing, and other sectors. Advancements in materials, growing adoption of nanotechnology, and organic polymers across industrial products will further enhance the market growth. Instead of a tag attached to a garment, for instance, an RFID transponder could be printed directly onto cloth or packaging using biodegradable conductive inks. This type of new initiative will allow both end users and RFID manufacturers to leverage these new technologies and ready themselves for more widespread use of RFID.

The global RFID market was valued at \$REDACTED billion in 2021 and is expected to reach \$REDACTED billion by 2027. The compound annual growth rate (CAGR) of the market is estimated to grow by REDACTED% over the forecast period 2022-2027. RFID technology is expected to witness a steady growth in the coming years, which is attributed to the increasing demand for locating, tracking, and monitoring objects and beings for security, safety, and resource optimization. As the world moves toward real-time location systems (RTLS), sensor networks, and the Internet of Things (IoT), radio frequency identification devices are anticipated to play an increasingly important role in capitalizing on these technologies.

The RFID deployed in the industry is composed of three major components, namely tags, readers, and software and services. The tags form the largest part of the market and are subject to prime development activities. While the deployment of passive tags is the largest in the industry, active tags are also gaining momentum as numerous new applications have sprung up in recent years

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and the tag size has continually been reducing. The major trends aiding in the radio frequency technology adoption are automation, real-time intelligence, supply chain management, asset tracking and payments, and NFC. The government mandates for the use of RFID tags for tracking various industry products, such as defense, livestock, and data centers, are also proving to be important factors in the industry's development.

Table of Contents:

Table of Contents

Chapter 1 Introduction

1.1 Overview

1.2 Study Goals and Objectives

1.3 What's New in This Update?

1.4 Scope of Report

1.5 Intended Audiences

1.6 Information Sources

1.7 Research Methodology

1.8 Geographic Breakdown

1.9 Analyst's Credentials

1.10 BCC Custom Research

1.11 Related BCC Research Reports

Chapter 2 Executive Summary and Highlights

Chapter 3 Industry Outlook

3.1 Market Overview

3.1.1 RFID Standards

3.2 Value Chain Analysis

3.3 Data Acquisition

3.4 Data Transformation

3.5 Semantic Event Generation

3.6 Business Process Coordination

3.7 Decision/Action

3.8 PESTEL Analysis

3.9 SWOT Analysis

3.10 Porter's Five Forces Analysis

3.11 RFID Technology Roadmap

3.12 Use Cases Analysis

3.12.1 Industry 4.0 Operations

3.12.2 Distribution and Logistics

3.12.3 Asset Tracking

3.12.4 Supply Chain Management

3.12.5 Track & Trace and Regulatory Compliance

3.12.6 Brand Protection Anticounterfeiting & Grey Market Control

3.12.7 Retail

3.12.8 Inventory Accuracy

3.12.9 Visual Merchandising

3.12.10 Replenishment From Stockroom

3.12.11 Customer Experience and Relationship Management

3.12.12 Anti-theft

3.12.13 Omnichannel Sales

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3.13 Assessment of the COVID-19 Impact on the Market

Chapter 4 Market Dynamics

4.1 Market Drivers

4.1.1 Growing Demand for RFID Products in Retail Sectors

4.1.2 Increasing Need for RFID Systems in Manufacturing Facilities to Boost Productivity

4.1.3 Growing Government Initiatives for the Use of AIDC Technology

4.2 Market Challenges

4.2.1 Higher Installation Costs Associated with RFID

4.2.2 Lack of Backup for Large Volume of Data

4.3 Market Opportunities

4.3.1 Rising Demand for Hybrid RFID Systems

4.3.2 Surge in Adoption of RFID Tags for Industry 4.0, Internet of Things, and Smart Manufacturing

Chapter 5 Market Breakdown by Component

5.1 Overview

5.2 RFID Tags

5.3 RFID Readers

5.4 Software and Services

Chapter 6 Market Breakdown by Frequency

6.1 Overview

6.2 Low Frequency

6.3 High Frequency

6.4 Ultra-High Frequency

Chapter 7 Market Breakdown by Type

7.1 Overview

7.2 Active RFID

7.3 Passive RFID

Chapter 8 Market Breakdown by Application

8.1 Overview

8.2 Retail

8.3 Healthcare

8.4 Transportation and Logistics

8.5 Industrial

8.6 Military and Defense

8.7 Others

8.7.1 Government

8.7.2 Financial Services

8.7.3 Agriculture

8.7.4 Animal Tracking

8.7.5 Consumer Products

Chapter 9 Market Breakdown by Region

9.1 Overview

9.2 North America

9.2.1 United States

9.2.2 Canada

9.2.3 Mexico

9.3 Europe

9.3.1 United Kingdom

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9.3.2 Germany
9.4 Asia-Pacific
9.4.1 China
9.4.2 India
9.4.3 Japan
9.5 Latin America
9.5.1 Brazil
9.6 Middle East and Africa
Chapter 10 Patent Analysis
10.1 Introduction
10.2 Patent Analysis
10.3 Recent Granted Patents
Chapter 11 Competitive Landscape
11.1 Vendor Landscape
11.2 Market Ranking Analysis
11.3 Strategic Scenario
Chapter 12 Company Profiles
3M
ACTATEK (UK) Ltd.
AMS OSRAM AG
ASSA ABLOY AB
AVERY DENNISON CORP.
CHECKPOINT SYSTEMS, INC.
DATALOGIC S.P.A.
EAGILE INC.
GAO RFID INC.
HONEYWELL INTERNATIONAL INC.
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