

Global UHF RFID IC Market Research Report 2026(Status and Outlook)

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Abstracts

The 2025 U.S. tariff policies introduce profound uncertainty into the global economic landscape. This report critically examines the implications of recent tariff adjustments and international strategic countermeasures on UHF RFID IC competitive dynamics, regional economic interdependencies, and supply chain reconfigurations. Radio frequency identification technology mainly uses alternating magnetic fields or electromagnetic fields to realize information communication, so as to realize the identification of targets. RFID tags contain RFID IC, and use RFID radio frequency identification as the basic technology to complete data storage, reading and other operations, and the data is stored in the RFID chip. RFID IC are divided into three main radio frequency ranges: low frequency (LF), high frequency (HF) and ultra-high frequency (UHF). UHF is generally a frequency between the frequency band (860-960MHz). UHF RFID frequency bands vary around the world, ranging from 902-928MHz in the United States and Canada, and between 862-870MHz in Europe. China is distributed in the 804-845MHz and 920-925MHz frequency bands, and Japan is between 952-954MHz. In terms of shipment volume, RFID is the most widely used IoT technology: those who are concerned about IoT should have heard of such numbers from major research institutions: the number of IoT connections will reach tens of billions or even hundreds of billions, and connectivity is the foundation of commercial value. Based on these massive IoT connections, a market worth millions of dollars will be derived. In terms of shipment volume, the current global annual consumption of RFID tag products exceeds 20 billion, and with the continuous growth of ultra-high frequency RFID, this number is still increasing. RFID, as a consumable, has a stable market and broad prospects. To evaluate the potential of a market, it is necessary to clarify whether it is a stock market or an incremental market. If it is a stock market, it means that the market is becoming increasingly saturated and market opportunities will gradually shrink; The incremental market means that the market is continuously growing

and has great potential. For example, in recent years, the application fields such as cameras, smart water meters, and smart gas meters that have been widely installed in cities have experienced explosive growth in the early years. However, when the market penetration is relatively high, the growth will be weak. Objectively speaking, this is a problem that all enterprise level applications will face. To maintain the relative stability of the market, it is necessary to make it an incremental market with consumer categories, and RFID electronic tags have the attribute of consumables, especially in the fields of shoes and clothing, supermarket retail, aviation luggage tags, etc. Electronic tags are disposable consumables. This market is not only stable, but also has a large market capacity. The global market for semiconductor was estimated at US\$ 579 billion in the year 2022, is projected to US\$ 790 billion by 2029, growing at a CAGR of 6% during the forecast period. Although some major categories are still double-digit year-over-year growth in 2022, led by Analog with 20.76%, Sensor with 16.31%, and Logic with 14.46% growth, Memory declined with 12.64% year over year. The microprocessor (MPU) and microcontroller (MCU) segments will experience stagnant growth due to weak shipments and investment in notebooks, computers, and standard desktops. In the current market scenario, the growing popularity of IoT-based electronics is stimulating the need for powerful processors and controllers. Hybrid MPUs and MCUs provide real-time embedded processing and control for the topmost IoT-based applications, resulting in significant market growth. The Analog IC segment is expected to grow gradually, while demand from the networking and communications industries is limited. Few of the emerging trends in the growing demand for Analog integrated circuits include signal conversion, automotive-specific Analog applications, and power management. They drive the growing demand for discrete power devices.

The global UHF RFID IC market size was estimated at USD 435.0 million in 2025 and is projected to grow at a compound annual growth rate (CAGR) of 11.30% during the forecast period.

This report offers a comprehensive and in-depth analysis of the global UHF RFID IC market, covering all critical facets from a broad macroeconomic overview to detailed micro-level insights. It examines market size, competitive landscape, emerging development trends, niche segments, key drivers and challenges, as well as conducts SWOT and value chain analyses.

The insights provided enable readers to understand the competitive dynamics within the industry and formulate effective strategies to enhance profitability and market positioning. Additionally, the report presents a clear framework for evaluating the current status and future outlook of business organizations operating in this sector.

A significant focus of this report lies in the competitive landscape of the global UHF RFID IC market. It offers detailed profiles of major players, including their market shares, performance metrics, product portfolios, and operational status. This enables stakeholders to identify leading competitors and gain a nuanced understanding of market rivalry and structure.

In summary, this report serves as an essential resource for industry participants, investors, researchers, consultants, and business strategists, as well as anyone planning to enter or expand their presence in the UHF RFID IC market.

Global UHF RFID IC Market: Market Segmentation Analysis

This research report provides a detailed segmentation of the market by region (country), key manufacturers, product type, and application. Market segmentation divides the overall market into distinct subsets based on factors such as product categories, end-user industries, geographic locations, and other relevant criteria.

A clear understanding of these market segments enables decision-makers to tailor their product development, sales, and marketing strategies more effectively to meet the unique needs of each segment. Leveraging market segmentation insights can significantly enhance targeted approaches, optimize resource allocation, and accelerate product innovation cycles by aligning offerings with the specific demands of diverse customer groups.

Key Company

Impinj
NXP
Alien Technology
EM Microelectronic
Shanghai Quanray Electronics
Invengo Information Technology
Kiloway
Fudan Microelectronics Group
ZSM Electronics
T-Head
Huada Semiconductor
RICE GROUP

MAXWAVE MICRO

Market Segmentation (by Type)

Universal Chips
Customized Chips

Market Segmentation (by Application)

Shoes and Clothing
Retail
Books Archives
Aerospace
Power
Others

Geographic Segmentation

North America (USA, Canada, Mexico)

Europe (Germany, UK, France, Russia, Italy, Rest of Europe)

Asia-Pacific (China, Japan, South Korea, India, Southeast Asia, Rest of Asia-Pacific)

South America (Brazil, Argentina, Columbia, Rest of South America)

The Middle East and Africa (Saudi Arabia, UAE, Egypt, Nigeria, South Africa, Rest of MEA)

Key Benefits of This Market Research:

Industry drivers, restraints, and opportunities covered in the study
Neutral perspective on the market performance
Recent industry trends and developments
Competitive landscape & strategies of key players
Potential & niche segments and regions exhibiting promising growth covered
Historical, current, and projected market size, in terms of value

In-depth analysis of the UHF RFID IC Market

Overview of the regional outlook of the UHF RFID IC Market:

Customization of the Report

In case of any queries or customization requirements, please connect with our sales team, who will ensure that your requirements are met.

Chapter Outline

Chapter 1 mainly introduces the statistical scope of the report, market division standards, and market research methods.

Chapter 2 is an executive summary of different market segments (by region, product type, application, etc), including the market size of each market segment, future development potential, and so on. It offers a high-level view of the current state of the UHF RFID IC Market and its likely evolution in the short to mid-term, and long term.

Chapter 3 makes a detailed analysis of the market's competitive landscape of the market and provides the market share, capacity, output, price, latest development plan, merger, and acquisition information of the main manufacturers in the market.

Chapter 4 is the analysis of the whole market industrial chain, including the upstream and downstream of the industry, as well as Porter's five forces analysis.

Chapter 5 introduces the latest developments of the market, the driving factors and restrictive factors of the market, the challenges and risks faced by manufacturers in the industry, and the analysis of relevant policies in the industry.

Chapter 6 provides the analysis of various market segments according to product types, covering the market size and development potential of each market segment, to help readers find the blue ocean market in different market segments.

Chapter 7 provides the analysis of various market segments according to application, covering the market size and development potential of each market segment, to help readers find the blue ocean market in different downstream markets.

Chapter 8 provides a quantitative analysis of the market size and development potential of each region and its main countries and introduces the market development, future

development prospects, market space, and capacity of each country in the world.

Chapter 9 shares the main producing countries of UHF RFID IC, their output value, profit level, regional supply, production capacity layout, etc. from the supply side.

Chapter 10 introduces the basic situation of the main companies in the market in detail, including product sales revenue, sales volume, price, gross profit margin, market share, product introduction, recent development, etc.

Chapter 11 provides a quantitative analysis of the market size and development potential of each region in the next five years.

Chapter 12 provides a quantitative analysis of the market size and development potential of each market segment in the next five years.

Chapter 13 is the main points and conclusions of the report.

Key Reasons to Buy this Report:

Access to date statistics compiled by our researchers. These provide you with historical and forecast data, which is analyzed to tell you why your market is set to change

This enables you to anticipate market changes to remain ahead of your competitors

You will be able to copy data from the Excel spreadsheet straight into your marketing plans, business presentations, or other strategic documents

The concise analysis, clear graph, and table format will enable you to pinpoint the information you require quickly

Provision of market value data for each segment and sub-segment

Indicates the region and segment that is expected to witness the fastest growth as well as to dominate the market

Analysis by geography highlighting the consumption of the product/service in the region as well as indicating the factors that are affecting the market within each

region

Competitive landscape which incorporates the market ranking of the major players, along with new service/product launches, partnerships, business expansions, and acquisitions in the past five years of companies profiled

Extensive company profiles comprising of company overview, company insights, product benchmarking, and SWOT analysis for the major market players

The current as well as the future market outlook of the industry concerning recent developments which involve growth opportunities and drivers as well as challenges and restraints of both emerging as well as developed regions

Includes in-depth analysis of the market from various perspectives through Porter's five forces analysis

Provides insight into the market through Value Chain

Market dynamics scenario, along with growth opportunities of the market in the years to come

6-month post-sales analyst support

Customization of the Report

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