

Global RFID Tag 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 RFID Tag IC competitive dynamics, regional economic interdependencies, and supply chain reconfigurations. RFID tag IC usually refer to ultra-low power integrated circuits that integrate RF front-end, modulation and demodulation, power management, storage units, and simple logic control circuits. They are the "core brain" of various RFID electronic tags and smart tags. They obtain energy through electromagnetic fields emitted by external readers and complete identity recognition, data access, and status feedback. They are widely used in retail clothing, logistics warehousing, asset management, traffic cards, access control tickets, animal management, and industrial traceability scenarios. In 2024, global RFID Tag IC production reached approximately 98,634 M Pcs, with an average global market price of around US\$ 8.23 per k Pcs. Under mature technology and stable yield, a single RFID tag chip production line can achieve an annual production capacity of approximately 100 million to 150 million pieces by using 8-inch or 12 inch wafer foundry and standard QFN/WLCSP packaging forms. When the head design factory cooperates with stable foundry and packaging testing systems, the overall gross profit margin is usually in the range of 30% to 40%. Among them, the gross profit margin of large-scale general-purpose UHF/HF chips is lower, while the gross profit margin of high safety or sensor fusion products is slightly higher; Upstream, it mainly includes wafer foundries, packaging and testing factories, silicon wafers and photoresist, specialty gas and chemical suppliers, as well as technology providers such as storage IP, RF IP, encryption IP, etc. Downstream, it targets various label inlay factories, label conversion factories, system integrators, and end industry customers such as retail, logistics, access control tickets, transportation, industrial and animal management; From the perspective of cost structure, front-end costs such as wafer processing and masking

usually account for 45% to 60% of the total cost, packaging and testing account for about 15% to 25%, and the rest are design and development and IP authorization amortization, yield optimization and application support, sales management, and channel expenses. Among them, manufacturers with large-scale shipments, stable yield, and platform based product lines are more likely to consolidate their gross profit margin level by diluting R&D and IP costs and improving single line capacity utilization, while pure price war manufacturers have relatively limited profit margins under the rigid premise of wafer and packaging costs. From a market perspective, the overall global RFID tag chip market is in a stage of "steady growth in total quantity, continuous upgrading of structure, and continuous expansion of applications". UHF is accelerating its penetration in retail and supply chains due to the digitalization of large supermarkets and brand merchants, HF/NFC maintains high prosperity in transportation tickets, mobile payments, anti-counterfeiting traceability, and intelligent packaging, while LF and special HF products steadily develop in sub sectors such as automotive, anti-theft, and industrial Internet of Things. At the same time, chips are evolving towards higher storage capacity, longer read range, stronger anti-interference, more secure encryption, and higher integration. The overall unit price is slowly declining due to scale and competition. However, with the expansion of applications such as new retail, intelligent manufacturing, cold chain tracking, and smart cities, the proportion of identifiable items per unit continues to increase, enabling platform chip manufacturers with complete frequency band product combinations, low-cost large-scale supply capabilities, and deep cooperation with system integrators and brand customers to gain higher market concentration and stronger ecological dominance.

The global RFID Tag IC market size was estimated at USD 812.0 million in 2025 and is projected to grow at a compound annual growth rate (CAGR) of 9.30% during the forecast period.

This report offers a comprehensive and in-depth analysis of the global RFID Tag 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 RFID Tag 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 RFID Tag IC market.

Global RFID Tag 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
STMicroelectronics
EM Microelectronic
Microchip Technology
Shanghai Quanray Electronics
Invengo Information Technology
Kiloway
Fudan Microelectronics Group
T-Head
Huada Semiconductor
RICE GROUP

MAXWAVE MICRO
Shenzhen Nation RFID Technology

Market Segmentation (by Type)

LF RFID IC
HF RFID IC
UHF RFID IC

Market Segmentation (by Application)

Shoes and Clothing
Retail
Books Archives
Animal Management
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 RFID Tag IC Market
Overview of the regional outlook of the RFID Tag 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 RFID Tag 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 RFID Tag 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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