

Global UHF RFID IC Market 2025 by Manufacturers, Regions, Type and Application, Forecast to 2031

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Abstracts

According to our (Global Info Research) latest study, the global UHF RFID IC market size was valued at US\$ 447 million in 2024 and is forecast to a readjusted size of USD 943 million by 2031 with a CAGR of 11.0% during review period.

In this report, we will assess the current U.S. tariff framework alongside international policy adaptations, analyzing their effects on competitive market structures, regional economic dynamics, and supply chain resilience.

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.

This report is a detailed and comprehensive analysis for global UHF RFID IC market. Both quantitative and qualitative analyses are presented by manufacturers, by region & country, by Type and by Application. As the market is constantly changing, this report explores the competition, supply and demand trends, as well as key factors that contribute to its changing demands across many markets. Company profiles and product examples of selected competitors, along with market share estimates of some of the selected leaders for the year 2025, are provided.

Key Features:

Global UHF RFID IC market size and forecasts, in consumption value (\$ Million), sales quantity (M Units), and average selling prices (US\$/K Unit), 2020-2031

Global UHF RFID IC market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (M Units), and average selling prices (US\$/K Unit), 2020-2031

Global UHF RFID IC market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (M Units), and average selling prices (US\$/K Unit), 2020-2031

Global UHF RFID IC market shares of main players, shipments in revenue (\$ Million), sales quantity (M Units), and ASP (US\$/K Unit), 2020-2025

The Primary Objectives in This Report Are:

To determine the size of the total market opportunity of global and key countries

To assess the growth potential for UHF RFID IC

To forecast future growth in each product and end-use market

To assess competitive factors affecting the marketplace

This report profiles key players in the global UHF RFID IC market based on the following parameters - company overview, sales quantity, revenue, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Impinj, NXP, Alien Technology, EM Microelectronic, Shanghai Quanray Electronics, Invengo Information Technology, Kiloway, Fudan Microelectronics Group, ZSM Electronics, T-Head, etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

Market Segmentation

UHF RFID IC market is split by Type and by Application. For the period 2020-2031, the growth among segments provides accurate calculations and forecasts for consumption value by Type, and by Application in terms of volume and value. This analysis can help you expand your business by targeting qualified niche markets.

Market segment by Type

Universal Chips

Customized Chips

Market segment by Application

Shoes and Clothing

Retail

Books Archives

Aerospace

Power

Others

Major players covered

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 segment by region, regional analysis covers

North America (United States, Canada, and Mexico)

Europe (Germany, France, United Kingdom, Russia, Italy, and Rest of Europe)

Asia-Pacific (China, Japan, Korea, India, Southeast Asia, and Australia)

South America (Brazil, Argentina, Colombia, and Rest of South America)

Middle East & Africa (Saudi Arabia, UAE, Egypt, South Africa, and Rest of Middle East & Africa)

The content of the study subjects, includes a total of 15 chapters:

Chapter 1, to describe UHF RFID IC product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of UHF RFID IC, with price, sales quantity, revenue, and global market share of UHF RFID IC from 2020 to 2025.

Chapter 3, the UHF RFID IC competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the UHF RFID IC breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2020 to 2031.

Chapter 5 and 6, to segment the sales by Type and by Application, with sales market share and growth rate by Type, by Application, from 2020 to 2031.

Chapter 7, 8, 9, 10 and 11, to break the sales data at the country level, with sales quantity, consumption value, and market share for key countries in the world, from 2020 to 2025. and UHF RFID IC market forecast, by regions, by Type, and by Application, with sales and revenue, from 2026 to 2031.

Chapter 12, market dynamics, drivers, restraints, trends, and Porters Five Forces analysis.

Chapter 13, the key raw materials and key suppliers, and industry chain of UHF RFID IC.

Chapter 14 and 15, to describe UHF RFID IC sales channel, distributors, customers, research findings and conclusion.

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