

# Radio-Frequency Identification (RFID) Market Will Surpass US\$ 27.31 Billion at 9.0% CAGR Growth From 2025 to 2034

*Growing funding in the logistics and warehouse sector is driving the market demand for RFID tags.*

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RFID market is projected to reach US\$ 27.31 billion by 2034, growing at a CAGR of 9.0% from 2025 to 2034. The market is driven by increasing demand for supply chain optimization, inventory management, and security. Key applications include retail, healthcare, and logistics. The market is expected to be dominated by North America and Europe, with Asia-Pacific showing rapid growth. The market is highly competitive, with major players including Texas Instruments, Impinj, and Zebra Technologies. The market is expected to be highly fragmented, with many small and medium-sized enterprises. The market is expected to be highly volatile, with significant price fluctuations. The market is expected to be highly regulated, with strict standards for security and privacy. The market is expected to be highly innovative, with new applications and technologies emerging. The market is expected to be highly dynamic, with rapid changes in technology and market structure. The market is expected to be highly competitive, with many small and medium-sized enterprises. The market is expected to be highly fragmented, with many small and medium-sized enterprises. The market is expected to be highly volatile, with significant price fluctuations. The market is expected to be highly regulated, with strict standards for security and privacy. The market is expected to be highly innovative, with new applications and technologies emerging. The market is expected to be highly dynamic, with rapid changes in technology and market structure.

**Radio-frequency identification (RFID)** is a configuration of wireless communication that imbibes the usage of electromagnetic and electrostatic coupling in the radio frequency allocation of the electromagnetic scale to distinctly recognize an object, animal, or person. Each RFID system comprises a scanning antenna, a transceiver, and a transponder. When the scanning antenna and transceiver are merged, they are indicated as the RFID reader or interrogator.

For more information, visit: [https://www.polarismarketresearch.com/industry-analysis/radio-frequency-identification-market/request-for-sample?utm\\_source=EIN&utm\\_medium=EIN&utm\\_campaign=EIN&utm\\_id=01](https://www.polarismarketresearch.com/industry-analysis/radio-frequency-identification-market/request-for-sample?utm_source=EIN&utm_medium=EIN&utm_campaign=EIN&utm_id=01)

The RFID reader is a network-linked gadget that can be mobile and forever attached. It utilizes radio waves to dispatch signals that operate the tag. Once operated, the tag dispatches a wave back to antenna where it is interpreted into data. The transponder is in the RFID tag itself. The read spectrum for RFID tags differs dependent on elements involving the type of tag, the type of



**POLARIS** MARKET RESEARCH **Radio-Frequency Identification (RFID) Market**

**US\$ 27.31 BN**  
Revenue Forecast in 2034

Radio-Frequency Identification (RFID) Market



Radio-frequency identification (RFID) market to reach USD 27.31 billion by 2034, growing at a 9.0% CAGR.”

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reader, and RFID frequency. RFID is appropriate for varied applications, from tracing commodities in a store to observing assets in a warehouse, placing the radio-frequency identification (RFID) market on a growth trajectory.

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Growing funding in smart city projects is driving the radio-

frequency identification market demand as it sanctions smooth connectivity and functional productivity in smart city habitats. For instance, the Government of India granted USD 19.03 billion to advance 100 smart cities covering the nation. Smart city planners are incorporating RFID into conveyance systems to sanction mechanized toll collection, productive parking handling, and real-time vehicle tracking.

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As defense budgets augment worldwide, military forces are acquiring progressive solutions involving RFID tags and readers to reinforce productivity, safety, and holistic operational productivity. For instance, as per the Stockholm International Peace Research Institute (SIPRI), the aggregate global defense budget escalated by 6.8% in 2023. RFID plays an important part in military combat by mechanizing control, affixing susceptible areas, and enhancing staff tracking.

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Understanding key players and their initiatives provides valuable insights into the competitive landscape and emerging opportunities in the market. Here are the top companies in the market:

- 3M
- Alien Technology, LLC
- AMERICAN RFID SOLUTIONS, LLC
- CAEN RFID S.r.l.
- GAO Group Inc.
- Honeywell International Inc.
- IBM Corporation
- Impinj, Inc.
- Mobile Aspects, Inc.
- Motorola Solutions, Inc.

- NewAge Industries, Inc.
- Radianse
- RF Technologies, Inc.
- SATO HOLDINGS CORPORATION
- Siemens
- STANLEY Healthcare
- STID

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Growing funding in the logistics and warehousing sector worldwide is pushing the market growth. For instance, according to a report issued by the India Brand Equity Foundation, in Q2 2024, India's warehousing and industrial sector allured USD 1.5 billion from exclusive equity funding. Surging funding causes businesses to augment their warehousing functions and acquire progressive technologies to smoothen supply chains, decrease mistakes and enhance resolution covering storage and dissemination networks.

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The radio-frequency identification market segmentation is based on offering, tag type, wafer size, material, frequency, form factor, application, industry vertical, and region.

Based on offering, the tags segment garnered the largest share in 2024 due to the growing acquisition of inventory management solutions, supply chain maximization, and asset tracking instruments. Businesses in retail, healthcare, logistics, and manufacturing have extensively administered RFID tags to enhance real-time observation, decrease functional prices, and improve productivity.

Based on tag type, the passive segment dominated the market in 2024 owing to its economy, broad application scale, and effortlessness of stationing across industries. Retailers, logistics providers, and healthcare firms have extensively acquired these tags for inventory tracking, supply chain handling, and asset observation.

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North America dominated the global market in 2024. This is because of its progressive technological framework, elevated funding in automation, and entrenched supply chain networks. Retail mammoths in the US, such as Walmart and Amazon, have combined RFID solutions to improve inventory handling, enhance checkout productivity, and decrease theft.

Asia Pacific is expected to grow at a robust pace during the forecast period due to speedy industrialization, e-commerce development, and smart city undertakings. Nations such as China, Japan, and India are growingly funding automation and digital alteration, causing elevated demand for RFID in logistics, manufacturing, and transportation.

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What are the radio-frequency identification (RFID) market stats?

The market size was valued at USD 11.58 billion in 2024 and is projected to grow to USD 27.31 billion by 2034.

Who are the key players in the radio-frequency identification (RFID) market?

Some of the key players in the market are 3M; Alien Technology, LLC; AMERICAN RFID SOLUTIONS, LLC; CAEN RFID S.r.l.; GAO Group Inc.; Honeywell International Inc.; IBM Corporation; Impinj, Inc.; Mobile Aspects, Inc.; Motorola Solutions, Inc.; NewAge Industries, Inc.; Radiance; RF Technologies, Inc.; SATO HOLDINGS CORPORATION; Siemens; STANLEY Healthcare; and STID.

Which offering segment dominated the market in 2024?

The tags segment dominated the market in 2024.

What is the regional scope of the market?

The market covers regions such as North America, Europe, Asia Pacific, Latin America, and the Middle East & Africa.

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