

RFID Investment Opportunities in APAC - Market Share Analysis, Industry Trends & Statistics, Growth Forecasts (2025 - 2030)

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Report description:

The RFID Investment Opportunities in APAC Market size is estimated at USD 5.45 billion in 2025, and is expected to reach USD 7.53 billion by 2030, at a CAGR of 6.68% during the forecast period (2025-2030).

Technological advancements have led to new approaches within the RFID technology like microprocessors with 5.8 GHz tags for smart cards and chipless IDs that enable contactless communication even in the absence of a silicon chip.

Key Highlights

- The RFID technology has emerged as a low-cost alternative for RFID system and has the potential to penetrate mass markets for low-cost item tagging, considering the high cost of silicon RFID transponders compared to optical barcodes.
- The APAC region is forecasted to be the greatest user of RFID technology and will witness strong growth in RFID revenues owing to increasing opportunities of RFID applications in countries such as India, China, Japan, South Korea and Taiwan.
- For instance, The Institute of Electrical and Electronics Engineers (IEEE) estimated that by 2020, more than 50 billion objects would be networked, of which many will use chipless RFID.
- The government support and initiatives for the use of Radio Frequency Identification (RFID) technology across various industrial verticals such as national ID cards and transportation, in addition increasing acceptance of RFID technology by private players has also added strong potential to RFID market.
- Many alternate labelling methods are being developed like linear barcoding and 2D data matrix barcoding, which hamper the growth of RFID. GS1 logistics label is the latest example which is used in the serial shipping container.

APAC RFID Market Trends

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Application in Automotive to Account for a Significant Share in APAC

- The innovative things are happening regularly in the automotive industry during the closing decade. Also, we are witnessing the products that are being developed have already been blended on by new smart new digital and engineering technology.
- The RFID tag provides a building or parking lot an intensified level of security. These systems are programmed accordingly when in parking, it keeps the counting of all vehicles that have entered and tell if there is space available in the parking or not. Furthermore, for the new entrants in the house, it already shows if the vehicles are authorised or not, then they give access to homes.
- Smartrac industry transponders are designed to accommodate the specific requirements of the automotive industry. These RFID sensors can measure moisture, liquid or temperature in their environment and pass the information to a reader.
- The government support and initiatives for the use of Radio Frequency Identification (RFID) technology across various industrial verticals such as automation, besides the increase in passenger cars in the APAC, will increase the demand of RFID technology by private players, has also added strong potential to RFID market.

Application in Healthcare & Medical Share to Drive the Market Growth

- Asia-Pacific is expected to witness a significant growth rate over the forecast period owing to the investments in improving patient care. Owing to these initiatives, India's healthcare industry is one of the fastest growing sectors and it is expected to reach USD 280 billion by 2020. The country has also become one of the leading destinations for high-end diagnostic solutions with tremendous capital investment for advanced diagnostic facilities, thus catering to a greater proportion of the population.
- Moreover, the prevalence of hypertension (HTN) continues to increase in developing countries particularly in India and China. According to the Indian Council of Medical Research, hypertension is attributable to 10.8% of all deaths in India. This has resulted in increased investments in RFID to monitor heart rate and blood pressure.
- Besides, India and China are expected to be the countries with the most number of diabetics in the future, reported the International Diabetes Federation which has bolstered the demand for clinically validated tracking devices in the region.

APAC RFID Industry Overview

The major players in APAC include Yodobashi Camera Co. Ltd., Tsinghua Tongflag Co. Ltd., Chilitag Technology, Lynstan Engineering, Ceylon Technology, ThingMagic, EMW Co. Ltd., Ripro Corporation, Perfect Corporation, Perfect RFID, Rasilant Technologies, among others. The market is fragmented since there's is competition among major players. Therefore, the market concentration will be low.

- April 2019 -Alien Technology, announced the Higgs-9 IC, the first release of its next-generation of Higgs RFID semiconductor integrated circuits. Higgs-9 enables enterprise-critical applications to run faster, smarter and with quicker ROI in RFID deployments.
- April 2019 -Avery Dennison, in a partnership with Kit Checkaimed for implementation of RFID technology for Big Pharma. This collaboration will help pharmaceutical companies to build into their medication labels, thereby enabling the tracking of each product from the point of manufacture until after it arrives at a hospital.

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Additional Benefits:

- The market estimate (ME) sheet in Excel format
- 3 months of analyst support

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