

Global Long-range RFID Module Market Growth 2026-2032

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Abstracts

The global Long-range RFID Module market size is predicted to grow from US\$ 19211 million in 2025 to US\$ 45785 million in 2032; it is expected to grow at a CAGR of 13.3% from 2026 to 2032.

A Long-range RFID Module is a hardware module for radio-frequency identification (RFID) that can detect and read RFID tags from a relatively long distance, typically ranging from several meters to tens of meters. The module generally integrates an RF transceiver, antenna, and signal processing unit, and interfaces with a host system via standard communication protocols such as UART, USB, or Ethernet. Long-range RFID modules are designed for high sensitivity and reliability, making them suitable for applications like logistics management, warehouse tracking, access control, and asset monitoring in non-contact and dynamic environments. In 2025, global RFID hardware (module/reader) production reached approximately 26.18 M units, with an average global market price of around US\$750 per unit. Annual production capacity is 29.22 M units. Gross Profit Margin: ~28%. The RFID hardware industry chain spans upstream, midstream, and downstream segments. Upstream includes semiconductor chips, microcontrollers, antennas, PCBs, and metals like copper and aluminum. Midstream consists of RFID module and reader manufacturers who integrate these components into functional hardware. Downstream covers logistics, retail, manufacturing, healthcare, and access control sectors, where RFID hardware is deployed for asset tracking, inventory management, and process automation. The industry is capital-intensive in production but benefits from economies of scale, with a few global leaders and emerging Chinese manufacturers forming a competitive but expanding landscape. RFID hardware is a critical enabler of digital transformation across industries. Its adoption is accelerating due to increasing demand for real-time tracking, smart supply chains, and automated processes. While average unit prices are moderate (~\$750), the value lies in

integration with software, analytics, and IoT systems. Future growth will likely favor manufacturers who can provide high-quality, interoperable hardware combined with global support and quick deployment capabilities.

United States market for Long-range RFID Module is estimated to increase from US\$ million in 2025 to US\$ million by 2032, at a CAGR of % from 2026 through 2032.

China market for Long-range RFID Module is estimated to increase from US\$ million in 2025 to US\$ million by 2032, at a CAGR of % from 2026 through 2032.

Europe market for Long-range RFID Module is estimated to increase from US\$ million in 2025 to US\$ million by 2032, at a CAGR of % from 2026 through 2032.

Global key Long-range RFID Module players cover Impinj Inc., Zebra Technologies, Avery Dennison RFID Solutions, Alien Technology, NXP Semiconductors NV, etc. In terms of revenue, the global two largest companies occupied for a share nearly % in 2025.

LP Information, Inc. (LPI) ' newest research report, the "Long-range RFID Module Industry Forecast" looks at past sales and reviews total world Long-range RFID Module sales in 2025, providing a comprehensive analysis by region and market sector of projected Long-range RFID Module sales for 2026 through 2032. With Long-range RFID Module sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US\$ millions of the world Long-range RFID Module industry.

This Insight Report provides a comprehensive analysis of the global Long-range RFID Module landscape and highlights key trends related to product segmentation, company formation, revenue, and market share, latest development, and M&A activity. This report also analyzes the strategies of leading global companies with a focus on Long-range RFID Module portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global Long-range RFID Module market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Long-range RFID Module and breaks down the forecast by Communication Distance, by Application, geography, and market size to highlight emerging pockets of opportunity. With a transparent methodology based on hundreds of bottom-up qualitative and quantitative market inputs, this study forecast offers a highly nuanced view of the current state and future trajectory in the global Long-range RFID

Module.

This report presents a comprehensive overview, market shares, and growth opportunities of Long-range RFID Module market by product type, application, key manufacturers and key regions and countries.

Segmentation by Communication Distance:

Long-range Module (>15m)

Medium-range Module (5?15m)

Short-range Module (?5m)

Segmentation by Frequency Band:

Ultra-High-Frequency Module (UHF, 860?960 MHz)

High-Frequency Module (HF, 13.56 MHz)

Microwave Module (2.45 GHz or 5.8 GHz)

Segmentation by Communication Interface:

Ethernet Module

UART Serial Module

USB Module

Wi-Fi / Wireless Module

Segmentation by Application:

Logistics & Supply Chain

Retail & Supermarket

Manufacturing & Industrial

Warehousing & Distribution Centers

Access Control & Security

Others

This report also splits the market by region:

Americas

United States

Canada

Mexico

Brazil

APAC

China

Japan

Korea

Southeast Asia

India

Australia

Europe

Germany

France

UK

Italy

Russia

Middle East & Africa

Egypt

South Africa

Israel

Turkey

GCC Countries

The below companies that are profiled have been selected based on inputs gathered from primary experts and analysing the company's coverage, product portfolio, its market penetration.

Impinj Inc.

Zebra Technologies

Avery Dennison RFID Solutions

Alien Technology

NXP Semiconductors NV

CAEN RFID S.r.l.

FEIG Electronic GmbH

Elatec GmbH

Honeywell International

ThingMagic

STid

Nordic ID Oy

Invengo Information Technology

Shenzhen Sanray Technology

Beijing Sillion Technology

SEUIC Technologies

RoyalRay RFID

RFID Hy Tech

Suzhou Sense Electronic

Shenzhen Focused Smartech

Key Questions Addressed in this Report

What is the 10-year outlook for the global Long-range RFID Module market?

What factors are driving Long-range RFID Module market growth, globally and by region?

Which technologies are poised for the fastest growth by market and region?

How do Long-range RFID Module market opportunities vary by end market size?

How does Long-range RFID Module break out by Communication Distance, by Application?

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