

Global Long-range RFID Module Market 2026 by Manufacturers, Regions, Type and Application, Forecast to 2032

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Abstracts

According to our (Global Info Research) latest study, the global Long-range RFID Module market size was valued at US\$ 20207 million in 2025 and is forecast to a readjusted size of US\$ 46205 million by 2032 with a CAGR of 12.5% during review period.

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.

This report is a detailed and comprehensive analysis for global Long-range RFID Module market. Both quantitative and qualitative analyses are presented by manufacturers, by region & country, by Communication Distance 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 Long-range RFID Module market size and forecasts, in consumption value (\$ Million), sales quantity (Units), and average selling prices (US\$/Unit), 2021-2032

Global Long-range RFID Module market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (Units), and average selling prices (US\$/Unit), 2021-2032

Global Long-range RFID Module market size and forecasts, by Communication Distance and by Application, in consumption value (\$ Million), sales quantity (Units), and average selling prices (US\$/Unit), 2021-2032

Global Long-range RFID Module market shares of main players, shipments in revenue (\$ Million), sales quantity (Units), and ASP (US\$/Unit), 2021-2026

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 Long-range RFID Module

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 Long-range RFID Module 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 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, etc.

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

Market Segmentation

Long-range RFID Module market is split by Communication Distance and by Application. For the period 2021-2032, the growth among segments provides accurate calculations and forecasts for consumption value by Communication Distance, 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 Communication Distance

Long-range Module (>15m)

Medium-range Module (5?15m)

Short-range Module (?5m)

Market segment 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)

Market segment by Communication Interface

Ethernet Module

UART Serial Module

USB Module

Wi-Fi / Wireless Module

Market segment by Application

Logistics & Supply Chain

Retail & Supermarket

Manufacturing & Industrial

Warehousing & Distribution Centers

Access Control & Security

Others

Major players covered

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

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 Long-range RFID Module product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Long-range RFID Module, with price, sales quantity, revenue, and global market share of Long-range RFID Module from 2021 to 2026.

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

Chapter 4, the Long-range RFID Module breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2021 to 2032.

Chapter 5 and 6, to segment the sales by Communication Distance and by Application, with sales market share and growth rate by Communication Distance, by Application, from 2021 to 2032.

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 2021 to 2026. and Long-range RFID Module market forecast, by regions, by Communication Distance, and by Application, with sales and revenue, from 2027 to 2032.

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 Long-range RFID Module.

Chapter 14 and 15, to describe Long-range RFID Module sales channel,

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