

Global Long-range RFID Module Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Long-range RFID Module market size is expected to reach \$ 46205 million by 2032, rising at a market growth of 12.5% CAGR during the forecast period (2026-2032).

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.

This report studies the global Long-range RFID Module production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Long-range RFID Module and provides market size (US\$ million) and Year-over-Year (YoY) Growth, considering 2025 as the base year. This report explores demand trends and competition, as well as details the characteristics of Long-range RFID Module that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Long-range RFID Module total production and demand, 2021-2032, (Units)

Global Long-range RFID Module total production value, 2021-2032, (USD Million)

Global Long-range RFID Module production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Units), (based on production site)

Global Long-range RFID Module consumption by region & country, CAGR, 2021-2032 & (Units)

U.S. VS China: Long-range RFID Module domestic production, consumption, key domestic manufacturers and share

Global Long-range RFID Module production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Units)

Global Long-range RFID Module production by Communication Distance, production, value, CAGR, 2021-2032, (USD Million) & (Units)

Global Long-range RFID Module production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Units)

This report profiles key players in the global Long-range RFID Module market based on the following parameters - company overview, production, value, 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.

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the World Long-range RFID Module market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (Units) and average price (US\$/Unit) by manufacturer, by Communication Distance, and by Application. Data is given for the years 2021-2032 by year with 2025 as the base year, 2026 as the estimate year, and 2027-2032 as the forecast year.

Global Long-range RFID Module Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Long-range RFID Module Market, Segmentation by Communication Distance:

Long-range Module (>15m)

Medium-range Module (5?15m)

Short-range Module (?5m)

Global Long-range RFID Module Market, 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)

Global Long-range RFID Module Market, Segmentation by Communication Interface:

Ethernet Module

UART Serial Module

USB Module

Wi-Fi / Wireless Module

Global Long-range RFID Module Market, Segmentation by Application:

Logistics & Supply Chain

Retail & Supermarket

Manufacturing & Industrial

Warehousing & Distribution Centers

Access Control & Security

Others

Companies Profiled:

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 Answered:

1. How big is the global Long-range RFID Module market?
2. What is the demand of the global Long-range RFID Module market?
3. What is the year over year growth of the global Long-range RFID Module market?
4. What is the production and production value of the global Long-range RFID Module market?
5. Who are the key producers in the global Long-range RFID Module market?
6. What are the growth factors driving the market demand?

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