

Global High Power RFID Reader Module Supply, Demand and Key Producers, 2026-2032

<https://marketpublishers.com/r/G28978A6851FEN.html>

Date: June 2026

Pages: 142

Price: US\$ 4,480.00 (Single User License)

ID: G28978A6851FEN

Abstracts

The global High Power RFID Reader Module market size is expected to reach \$ 6832 million by 2032, rising at a market growth of 11.5% CAGR during the forecast period (2026-2032).

A High Power Reader Module is a core RFID reader module designed for long-range identification. It features high RF transmission power and extended read distance, typically integrating the RF front-end, antenna interface, signal processing, and communication interface. It supports the UHF frequency band and RAIN RFID standards, and can be embedded in various industrial devices and systems for applications such as logistics management, warehouse automation, port container identification, and vehicle tracking. High power reader modules can be sold as standalone products or as part of a complete reader system. In 2025, global High Power RFID Reader Module production reached approximately 3.43 M units, with an average global market price of around US\$900 per unit. Annual production capacity is 3.89 M units. Gross Profit Margin: 39%. The high-power RFID reader module industry chain is composed of upstream component suppliers, core module manufacturers, and downstream integrators. Upstream includes semiconductor manufacturers producing RFICs, power amplifiers, and microcontrollers, as well as PCB and antenna suppliers. Midstream consists of specialized companies that design and assemble high-power RFID reader modules, integrating these components into industrial-grade modules. Downstream applications are broad, covering logistics, warehouse management, retail asset tracking, and smart manufacturing systems. This chain is highly interdependent, with upstream chip performance directly affecting the reliability and range of the modules, while downstream demand drives innovation and production scale. High-power RFID reader modules are a key enabler of smart industrial automation and large-scale asset management. Their relatively high unit price reflects the technical complexity and

the value they bring in improving efficiency and data accuracy. In my view, investing in suppliers with strong R&D and global distribution is critical for staying competitive, as the market growth and adoption of automated logistics continue to accelerate. Companies that can offer customizable modules with robust firmware and multi-environment compatibility will likely capture the leading share of this growing market.

This report studies the global High Power RFID Reader Module production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for High Power RFID Reader 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 High Power RFID Reader Module that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global High Power RFID Reader Module total production and demand, 2021-2032, (Units)

Global High Power RFID Reader Module total production value, 2021-2032, (USD Million)

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

Global High Power RFID Reader Module consumption by region & country, CAGR, 2021-2032 & (Units)

U.S. VS China: High Power RFID Reader Module domestic production, consumption, key domestic manufacturers and share

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

Global High Power RFID Reader Module production by Power Level, production, value, CAGR, 2021-2032, (USD Million) & (Units)

Global High Power RFID Reader Module production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Units)

This report profiles key players in the global High Power RFID Reader 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, ThingMagic, Syncotek, RoyalRay, Metratec, CYKEO, Winnix Technologies, Microsensys GmbH, Zebra

Technologies, Alien Technology, 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 High Power RFID Reader 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 Power Level, 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 High Power RFID Reader Module Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global High Power RFID Reader Module Market, Segmentation by Power Level:

High Power Module

Medium Power Module

Low Power Module

Global High Power RFID Reader Module Market, Segmentation by Form Factor:

Module / OEM Module

Standalone Reader

Embedded Development Board

Global High Power RFID Reader Module Market, Segmentation by Supported Protocol:

RAIN RFID Module

UHF Module

Multi-Protocol Module

Global High Power RFID Reader Module Market, Segmentation by Application:

Warehousing & Logistics

Transportation & Vehicle Tracking

Retail & Supermarkets

Manufacturing & Factory Automation

Healthcare & Pharmaceuticals

Others

Companies Profiled:

Impinj

ThingMagic

Syncotek

RoyalRay

Metratec

CYKEO

Winnix Technologies

Microsensys GmbH

Zebra Technologies

Alien Technology

FEIG Electronic GmbH

CAEN RFID S.r.l.

Unitech Electronics

Invengo Information

Silion RFID

National RFID Tech

Fongwah Technology

Jietong Technology

Chafon Technology

Identiv, Inc.

Key Questions Answered:

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

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