

# Global Embedded RFID Reader Supply, Demand and Key Producers, 2026-2032

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## Abstracts

The global Embedded RFID Reader market size is expected to reach \$ 1115 million by 2032, rising at a market growth of 3.8% CAGR during the forecast period (2026-2032). Embedded RFID readers are miniaturized, modular radio frequency identification data acquisition devices. Their core feature is their ability to be integrated into other terminal devices, industrial control systems, or smart hardware, rather than being used as standalone devices. Compared to fixed or handheld RFID devices, embedded RFID readers are characterized by their small size, low power consumption, strong compatibility, and high integration. Their size and functions can be flexibly customized to meet the needs of the host device without requiring additional space. They are widely used in smart terminals, industrial equipment, and IoT nodes, serving as a core embedded component for achieving device intelligence and automated data acquisition. The global production of embedded RFID readers is projected to reach 7.6 million units by 2025, with an average price of \$110 per unit.

Upstream of embedded RFID readers mainly consists of RF chips and modules, MCUs or SoCs, memory, power management ICs, RF front-end components, miniature antennas, PCBs, and basic electronic parts. Downstream is the most value-intensive segment, where embedded readers are integrated into industrial automation equipment, smart manufacturing lines, logistics sorting and warehousing systems, retail self-service terminals, medical devices and consumables management systems, smart lockers, unmanned vending equipment, and various IoT terminals. Downstream customers emphasize size and power consumption, read and write stability, multi-tag performance, compatibility with host controllers and industrial protocols, secondary development support, and long-term supply reliability, as the embedded form directly affects system performance, cost structure, and operational stability.

Industry trends focus on higher integration, miniaturization, and low-power design, with support for multiple bands and protocols and parallel development of HF and UHF.

Edge-side data processing is strengthening, along with deeper integration with cloud platforms and intelligent algorithms. Key drivers include continuous growth of smart manufacturing and connected equipment, automation upgrades in logistics and retail, and increasing demand for refined management in healthcare and asset tracking. Constraints mainly include high technical barriers in RF tuning and system integration, rising customization costs due to fragmented applications, strict requirements for supply chain continuity, and strong price sensitivity in certain segments that compress margins. Overall gross margins for embedded RFID readers are medium to relatively high, typically ranging from 40% to 65%. Vendors with in-house RF technologies, low-power solutions, and mature software platforms achieve higher margins, while standardized and highly homogeneous hardware products face margin pressure. Scale production and platform-based solutions help improve profitability and margin stability. This report studies the global Embedded RFID Reader production, demand, key manufacturers, and key regions.

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

### **Highlights and key features of the study**

Global Embedded RFID Reader total production and demand, 2021-2032, (Units)

Global Embedded RFID Reader total production value, 2021-2032, (USD Million)

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

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

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

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

Global Embedded RFID Reader production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Units)

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

This report profiles key players in the global Embedded RFID Reader 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 JADAK, ELATEC, HID Global, FEIG ELECTRONIC, CAEN RFID, Technology Solutions (UK) Ltd. (TSL), metraTec,

microsensys, Convergence Systems Limited (CSL), Invengo, 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 Embedded RFID Reader 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 Type, 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 Embedded RFID Reader Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Embedded RFID Reader Market, Segmentation by Type:

Low Frequency (LF)

High Frequency (HF)

Ultra-High Frequency (UHF)

Microwave (MW)

## Global Embedded RFID Reader Market, Segmentation by Communication Interface:

Serial Communication Interface

Bus/Ethernet Interface

Wireless Communication Interface

Hybrid Interface

## Global Embedded RFID Reader Market, Segmentation by Integrated Form:

RFID Reader IC

RFID Reader Board

RFID Reader Module

## Global Embedded RFID Reader Market, Segmentation by Application:

Consumer Electronics & Smart Terminals

Industrial Automation

Logistics & Warehousing

Smart Security

Healthcare

## **Companies Profiled:**

JADAK

ELATEC

HID Global

FEIG ELECTRONIC

CAEN RFID

Technology Solutions (UK) Ltd. (TSL)

metraTec

microsensys

Convergence Systems Limited (CSL)

Invengo

Unitech Electronics

GIGA-TMS

Promag

Pongee Industries

Identiv

Advanced Card Systems (ACS)

rf IDEAS

Balluff

MTI Wireless Edge

### **Key Questions Answered:**

1. How big is the global Embedded RFID Reader market?

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

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