

Global UHF RFID Reader IC Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global UHF RFID Reader IC market size is expected to reach \$ 454 million by 2032, rising at a market growth of 8.9% CAGR during the forecast period (2026-2032).

UHF RFID Reader Chips are RF and baseband semiconductor devices used in UHF / RAIN RFID readers, reader modules, handheld terminals, fixed readers, smart cabinets, POS devices, industrial gateways, and embedded IoT devices. The market includes standalone UHF RFID reader ICs, RAIN RFID reader SoCs, RF transceiver and modem chips, protocol-processing reader chips, reader SiP attributable chip value, and the attributable RFID reader function inside enterprise processors with integrated UHF RFID. The scope excludes UHF RFID tag chips, HF/NFC reader chips, reader modules as complete modules, full reader devices, antennas, software platforms, distributors, and system integration.

Key Findings Dedicated reader chips remain performance-critical Reader SoCs drive integration and miniaturization Impinj leads the global reader IC ecosystem China accelerates domestic reader chip substitution Reader SiP reduces embedded design complexity Processor-level RFID integration is emerging

Market Trends The market is shifting from discrete reader IC designs toward more integrated reader SoCs, compact SiP solutions, and processor-level integration for enterprise mobile devices. High-performance readers continue to require strong sensitivity, self-jammer cancellation, dense-reader operation, and high tag throughput. Embedded devices and handheld terminals increasingly require lower power, smaller form factors, software tools, and faster certification paths.

Market Dynamics Drivers include retail RFID adoption, smart inventory, warehouse

automation, logistics visibility, RAIN RFID printers, handheld terminals, smart cabinets, industrial traceability, and domestic substitution in China. Restraints include the relatively small number of reader devices compared with tag volume, module-level integration that hides chip revenue, competition from established module suppliers, and the difficulty of RF design and regional certification.

Industry Chain Analysis Upstream includes RF CMOS, mixed-signal semiconductor processes, packaging, RF test equipment, IP blocks, and wafer foundry capacity. Midstream suppliers design and supply UHF RFID reader ICs, reader SoCs, integrated RF front-end chips, SiP products, and reference designs. Downstream customers include RFID module makers, fixed reader manufacturers, handheld terminal OEMs, smart cabinet suppliers, POS and printer OEMs, logistics automation suppliers, and enterprise mobile processor platforms.

Segment Insights By integration level, reader SoCs represent the largest value segment because they combine RF, modem, protocol, and host control functions. Standalone reader ICs remain important for flexible and high-performance designs. Reader SiPs are growing in embedded and size-constrained products. By application, retail inventory, logistics, industrial manufacturing, and handheld terminals are the main demand areas.

Downstream Market Opportunities Key opportunities are in retail inventory, smart shelves, automated checkout, warehouse automation, logistics tracking, handheld terminals, RAIN RFID printers, smart cabinets, industrial production traceability, and asset management. Suppliers with strong SDKs, reference designs, regional certification support, high sensitivity, and low-power SoC integration can capture higher-value design-ins.

Regional Insights North America leads through Impinj and emerging processor-level integration from Qualcomm. Europe participates through STMicroelectronics and the former ams RFID technology base. South Korea participates through PHYCHIPS. China is expanding through Fudan Micro, Nation RFID, ThingMega, UCchip, and other domestic suppliers. Taiwan participates mainly through SiP, module, and RF front-end integration.

Competitive Landscape Analysis The market is led by Impinj, STMicroelectronics, PHYCHIPS, Fudan Micro, Nation RFID, ThingMega, UCchip, and Qualcomm in the integrated-processor route. Competition is based on receiver sensitivity, self-jammer cancellation, tag read rate, power consumption, integration level, protocol support, regional frequency support, SDK maturity, reference design quality, and module

ecosystem. Future competition will focus on high-integration Reader SoCs, low-power mobile reader chips, China domestic substitution, compact Reader SiP solutions, and RFID integration into enterprise mobile processors.

Report Scope

This report studies the global UHF RFID Reader IC production, demand, key manufacturers, and key regions.

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

Highlights and key features of the study

Global UHF RFID Reader IC total production and demand, 2021-2032, (Million Units)

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

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

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

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

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

Global UHF RFID Reader IC production by RF Output Power Class, production, value, CAGR, 2021-2032, (USD Million) & (Million Units)

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

This report profiles key players in the global UHF RFID Reader IC 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., STMicroelectronics, PHYCHIPS Inc., Shanghai Fudan Microelectronics Group Co., Ltd., Shenzhen Nation RFID Technology Co., Ltd., Dongxin Yuanxin Microelectronics Co., Ltd., Beijing UCchip Technology Co., Ltd., Qualcomm Technologies, Inc., 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 UHF RFID Reader IC market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (Million Units) and average price (US\$/Unit) by manufacturer, by RF Output Power Class, 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 UHF RFID Reader IC Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global UHF RFID Reader IC Market, Segmentation by RF Output Power Class:

Low-power Reader Chips

Mid-power Reader Chips

High-power Reader Chips

Global UHF RFID Reader IC Market, Segmentation by Reader Device Type:

Fixed Reader Chips

Handheld Reader Chips

Embedded Module Reader Chips

Desktop / Short-range Reader Chips

Multi-port / Multi-antenna Reader Chips

Global UHF RFID Reader IC Market, Segmentation by Antenna Port Architecture:

Single-antenna Reader Chips

Dual-antenna Reader Chips

Four-antenna Reader Chips

Global UHF RFID Reader IC Market, Segmentation by Application:

Retail Inventory and Smart Stores

Logistics, Warehousing and Supply Chain

Industrial Manufacturing and Automation

Handheld and Mobile Computing Devices

Access Control, Asset and Document Management

Companies Profiled:

Impinj, Inc.

STMicroelectronics

PHYCHIPS Inc.

Shanghai Fudan Microelectronics Group Co., Ltd.

Shenzhen Nation RFID Technology Co., Ltd.

Dongxin Yuanxin Microelectronics Co., Ltd.

Beijing UCchip Technology Co., Ltd.

Qualcomm Technologies, Inc.

Key Questions Answered:

1. How big is the global UHF RFID Reader IC market?
2. What is the demand of the global UHF RFID Reader IC market?
3. What is the year over year growth of the global UHF RFID Reader IC market?
4. What is the production and production value of the global UHF RFID Reader IC

market?

5. Who are the key producers in the global UHF RFID Reader IC market?

6. What are the growth factors driving the market demand?

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