

Global HF RFID Chip Market Growth 2026-2032

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Abstracts

The global HF RFID Chip market size is predicted to grow from US\$ 3380 million in 2025 to US\$ 6945 million in 2032; it is expected to grow at a CAGR of 10.9% from 2026 to 2032.

A High Frequency RFID Chip (HF RFID Chip) is an integrated circuit used in radio frequency identification systems that operates at 13.56 MHz. It is typically embedded in RFID tags or smart cards and is responsible for storing data and enabling wireless communication with RFID readers via electromagnetic coupling. HF RFID chips are widely used in applications such as contactless payments, access control, public transportation cards, and asset tracking due to their moderate read range, relatively fast data transfer rate, and strong anti-interference capability. In 2025, global HF RFID/NFC chip production reached approximately 28.79 B units, with an average global market price of around US\$ 0.12 per unit. Annual production capacity is 31 B Units. Gross Profit Margin: 12%. The HF RFID/NFC chip industry chain is relatively mature and vertically integrated. Upstream primarily includes semiconductor wafer suppliers, raw silicon materials, and specialized fab equipment manufacturers. Midstream consists of chip design companies and IC foundries producing HF/NFC ICs, such as NXP, STMicroelectronics, and Infineon. Downstream includes module integrators, RFID/NFC tag manufacturers, and end-product applications in logistics, retail, access control, and mobile payments. The industry relies on high-volume production and stringent quality control to maintain yield and meet global demand. HF RFID/NFC chips remain a cornerstone of the IoT and contactless interaction ecosystem. Although unit prices are low, their global deployment scale makes them strategically significant. Continuous innovation in security features, energy efficiency, and NFC functionality will drive differentiation among manufacturers. With increasing adoption in smart retail, healthcare, and digital ID systems, I believe the market will sustain stable growth, providing opportunities for both established Tier 1 players and emerging regional manufacturers.

United States market for HF RFID Chip is estimated to increase from US\$ million in 2025 to US\$ million by 2032, at a CAGR of % from 2026 through 2032.

China market for HF RFID Chip is estimated to increase from US\$ million in 2025 to US\$ million by 2032, at a CAGR of % from 2026 through 2032.

Europe market for HF RFID Chip is estimated to increase from US\$ million in 2025 to US\$ million by 2032, at a CAGR of % from 2026 through 2032.

Global key HF RFID Chip players cover NXP Semiconductors, STMicroelectronics, Infineon Technologies, Sony Semiconductor Solutions, Renesas Electronics, etc. In terms of revenue, the global two largest companies occupied for a share nearly % in 2025.

LP Information, Inc. (LPI) ' newest research report, the "HF RFID Chip Industry Forecast" looks at past sales and reviews total world HF RFID Chip sales in 2025, providing a comprehensive analysis by region and market sector of projected HF RFID Chip sales for 2026 through 2032. With HF RFID Chip sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US\$ millions of the world HF RFID Chip industry.

This Insight Report provides a comprehensive analysis of the global HF RFID Chip landscape and highlights key trends related to product segmentation, company formation, revenue, and market share, latest development, and M&A activity. This report also analyzes the strategies of leading global companies with a focus on HF RFID Chip portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global HF RFID Chip market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for HF RFID Chip and breaks down the forecast by Chip Functionality, by Application, geography, and market size to highlight emerging pockets of opportunity. With a transparent methodology based on hundreds of bottom-up qualitative and quantitative market inputs, this study forecast offers a highly nuanced view of the current state and future trajectory in the global HF RFID Chip.

This report presents a comprehensive overview, market shares, and growth opportunities of HF RFID Chip market by product type, application, key manufacturers

and key regions and countries.

Segmentation by Chip Functionality:

Read-Only Chips

Write Once Read Many (WORM) Chips

Read/Write Chips

Segmentation by Memory Capacity:

Low Memory Chips??1 Kbit

Medium Memory Chips?1?8 Kbit

High Memory Chips??8 Kbit

Segmentation by Protocol / Standard:

ISO/IEC 14443 Type A Chips

ISO/IEC 18092 (NFC) Chips

ISO/IEC 15693 Chips

ISO/IEC 14443 Type B Chips

Segmentation by Application:

Consumer Electronics

Transportation

Retail

Others

This report also splits the market by region:

Americas

United States

Canada

Mexico

Brazil

APAC

China

Japan

Korea

Southeast Asia

India

Australia

Europe

Germany

France

UK

Italy

Russia

Middle East & Africa

Egypt

South Africa

Israel

Turkey

GCC Countries

The below companies that are profiled have been selected based on inputs gathered from primary experts and analysing the company's coverage, product portfolio, its market penetration.

NXP Semiconductors

STMicroelectronics

Infineon Technologies

Sony Semiconductor Solutions

Renesas Electronics

Texas Instruments

Microchip Technology

EM Microelectronic

Legic IdentSystems

Phychips

Datang Microelectronics

Fujitsu Semiconductor

Mitsubishi Electric

Huada Evercore

Unigroup Guoxin

Giantec Semiconductor

Nationz Technologies

Shanghai Fudan Microelectronics

Tsinghua Tongfang Microelectronics

China Resources Microelectronics

Key Questions Addressed in this Report

What is the 10-year outlook for the global HF RFID Chip market?

What factors are driving HF RFID Chip market growth, globally and by region?

Which technologies are poised for the fastest growth by market and region?

How do HF RFID Chip market opportunities vary by end market size?

How does HF RFID Chip break out by Chip Functionality, by Application?

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