

# Global NFC/RFID Tags and Transponders Supply, Demand and Key Producers, 2026-2032

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## Abstracts

The global NFC/RFID Tags and Transponders market size is expected to reach \$ 10459 million by 2032, rising at a market growth of 4.2% CAGR during the forecast period (2026-2032).

NFC/RFID tags and transponders are wireless identification devices based on radio frequency identification (RFID) or near field communication (NFC) technology. They typically consist of an integrated circuit (IC) and an antenna, enabling wireless data transmission and identification through electromagnetic coupling. Depending on the power supply method, they can be passive, active, or semi-passive. Their primary function is to store and transmit data for identification, tracking, authentication, and interaction, and they are widely used in logistics management, smart manufacturing, retail, transportation, and IoT systems.

In 2025, the global production of NFC/RFID tags and transponders was 3.06 billion units, with an average price of US\$2.49 per unit.

NFC/RFID tags and transponders operate within a supply chain where upstream participants include silicon wafer suppliers, RFID chip designers, foundries, antenna material suppliers and packaging or printing processors. Core costs are concentrated in RFID chip design and fabrication, antenna materials such as etched copper or aluminum coils, and packaging and testing processes. As manufacturing scales up, chip costs continue to decline, although high-security and encryption-enabled chips maintain relatively high technical barriers. Downstream applications span retail inventory management, logistics tracking, asset management, access control and identification, intelligent transportation, e-passports, mobile payment and industrial automation. Retail inventory and supply chain visibility remain the primary markets for UHF RFID, while

NFC dominates in mobile payments, smart device pairing and digital identity authentication. The expansion of smart retail, automated warehousing and digital traceability systems continues to drive demand growth.

Industry trends include miniaturization and flexible printable UHF tags, extended read range, improved anti-interference capability and stronger encryption with multi-application integration in NFC solutions. Chip-antenna integration and environmentally friendly recyclable materials are becoming key areas of innovation. Growth drivers include global retail digital transformation, increased demand for supply chain transparency, expansion of mobile payment ecosystems, government promotion of electronic identification documents and broader IoT adoption. Key constraints involve intense price competition in commodity tags, privacy and data security regulations, performance limitations in metal or liquid environments and fragmented standards across regions.

Overall industry gross margins typically range between 20% and 45%. High-volume standard UHF tags generally achieve margins of 20%-30%, while high-security NFC tags and customized industrial-grade products can reach 35%-45%. Chip design companies usually maintain higher margins than tag assembly providers, and leading players serving high-security or branded customers can sustain relatively strong profitability. The industry is currently characterized by parallel expansion in scale and structural upgrading, with stronger growth prospects than traditional passive components but continued pricing pressure in mass-market segments.

This report studies the global NFC/RFID Tags and Transponders production, demand, key manufacturers, and key regions.

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

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

Global NFC/RFID Tags and Transponders total production and demand, 2021-2032, (Million Units)

Global NFC/RFID Tags and Transponders total production value, 2021-2032, (USD Million)

Global NFC/RFID Tags and Transponders production by region & country, production,

value, CAGR, 2021-2032, (USD Million) & (Million Units), (based on production site)  
Global NFC/RFID Tags and Transponders consumption by region & country, CAGR,  
2021-2032 & (Million Units)

U.S. VS China: NFC/RFID Tags and Transponders domestic production, consumption,  
key domestic manufacturers and share

Global NFC/RFID Tags and Transponders production by manufacturer, production,  
price, value and market share 2021-2026, (USD Million) & (Million Units)

Global NFC/RFID Tags and Transponders production by Type, production, value,  
CAGR, 2021-2032, (USD Million) & (Million Units)

Global NFC/RFID Tags and Transponders production by Application, production, value,  
CAGR, 2021-2032, (USD Million) & (Million Units)

This report profiles key players in the global NFC/RFID Tags and Transponders 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 NXP Semiconductors, STMicroelectronics, Texas Instruments, Impinj, Avery Dennison, Smart-TEC, Tagueos, Checkpoint Systems, SML, HID Global, 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 NFC/RFID Tags and Transponders 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 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 NFC/RFID Tags and Transponders Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

#### Global NFC/RFID Tags and Transponders Market, Segmentation by Type:

Low Frequency (LF) Tag

High Frequency (HF) Tag

Ultra High Frequency (UHF) Tag

Microwave Frequency Tag

#### Global NFC/RFID Tags and Transponders Market, Segmentation by Power Supply Method:

Passive Tag

Semi-Passive (Battery-Assisted Passive) Tag

Active Tag

#### Global NFC/RFID Tags and Transponders Market, Segmentation by Function:

Read-Only Tag

Read/Write Tag

## Global NFC/RFID Tags and Transponders Market, Segmentation by Application:

Retail And Supply Chain Management

Smart Manufacturing And Industrial Asset Management

Transportation And Access Control Systems

Mobile Payment And Smart Device Interaction

Library And Archive Management Systems

Medical Equipment And Consumables Tracking

## Companies Profiled:

NXP Semiconductors

STMicroelectronics

Texas Instruments

Impinj

Avery Dennison

Smart-TEC

Tageos

Checkpoint Systems

SML

HID Global

Identiv

Beontag

Confidex

Xerafy

Invengo

**Key Questions Answered:**

1. How big is the global NFC/RFID Tags and Transponders market?
2. What is the demand of the global NFC/RFID Tags and Transponders market?
3. What is the year over year growth of the global NFC/RFID Tags and Transponders market?
4. What is the production and production value of the global NFC/RFID Tags and Transponders market?
5. Who are the key producers in the global NFC/RFID Tags and Transponders market?
6. What are the growth factors driving the market demand?

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