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NFC Chip Market - Global Industry Size, Share, Trends, Opportunity, and Forecast, Segmented By Application (Television, Smartphone, Medical Equipment, Other Applications), By End-user (Consumer Electronics, Automotive, Retail, Banking and Finance, Medical, Other), By Region & Competition, 2021-2031F

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Abstracts

The Global NFC Chip Market is projected to expand from USD 4.72 Billion in 2025 to USD 9.01 Billion by 2031, reflecting a CAGR of 11.38%. This sector involves the manufacturing of integrated circuits that facilitate short-range wireless data transfer between electronic devices. The market's upward trajectory is primarily anchored by the widespread transition to contactless payment systems and the essential connectivity requirements of the Internet of Things. These driving forces create enduring technological demand, distinct from fleeting consumer fads, by fulfilling fundamental infrastructural needs within the financial and logistics industries.

However, market expansion faces notable hurdles due to technical intricacies surrounding data security and the prevention of illicit access. Apprehensions regarding privacy violations may stall implementation in sensitive industries that demand rigorous protection measures. Highlighting the technology's integral role in the digital economy, the NFC Forum reported in 2024 that 57 percent of surveyed consumers utilized contactless technology on a daily basis.

Market Driver

The surge in contactless payment systems represents the primary catalyst for the

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Global NFC Chip Market. This momentum necessitates the large-scale manufacturing of secure microcontrollers integrated into credit cards and point-of-sale terminals to support fast, protected transactions. As financial infrastructures move away from magnetic stripes and contact-based methods, the need for Near Field Communication components rises in tandem with transaction frequency. According to Visa Inc.'s 'Fiscal Year 2024 Annual Report' published in November 2024, tap-to-pay adoption reached 80 percent of all face-to-face transactions worldwide, excluding the United States. This prevalence ensures a consistent hardware replacement cycle, thereby maintaining steady order volumes for chip producers adhering to strict speed and security benchmarks.

Market growth is further accelerated by the pervasive inclusion of NFC technology in smartphones and wearables, extending its utility from payments to access control and identity verification. Contemporary mobile devices increasingly serve as digital keys for vehicles and corporate environments, requiring sophisticated controller chips capable of handling complex cryptographic protocols. In May 2024, HID's '2024 State of the Physical Access Control Industry Report' noted that 41 percent of organizations had deployed mobile access solutions to supersede traditional physical credentials, cementing the reliance on NFC within consumer electronics. Additionally, UK Finance reported in 2024 that contactless methods comprised 38 percent of all payments in the United Kingdom, demonstrating the deep consumer adoption that stabilizes this semiconductor segment.

Market Challenge

Technical difficulties related to data security and preventing unauthorized entry serve as a major impediment to the Global NFC Chip Market's growth. Since NFC relies on radio frequencies for short-distance communication, it carries inherent vulnerabilities to eavesdropping and data interception. These weaknesses enable malicious actors to conduct relay attacks or corrupt data in transit, posing serious operational threats to industries that demand strict data safeguards. As a result, sectors like government, healthcare, and high-value logistics may hesitate to fully adopt NFC infrastructure, restricting the market's reach outside of typical consumer uses.

The continuity of these security risks negatively affects market sentiment and financial stability, thereby hindering widespread adoption. When unauthorized parties breach payment or identification systems, the ensuing financial damages can be substantial, leading to caution among consumers and businesses alike. For instance, UK Finance data from 2024 indicates that unauthorized fraud losses amounted to ?722 million,

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highlighting the real-world financial consequences of security failures in digital payment systems. This persistent risk landscape compels manufacturers to emphasize intricate security protocols rather than rapid rollout, effectively slowing the pace of innovation and market penetration for NFC technologies.

Market Trends

The incorporation of NFC technology into Digital Product Passports (DPP) marks a significant evolution fueled by rigorous sustainability mandates, especially within the European Union. In contrast to static QR codes, NFC tags integrated into items like batteries, textiles, and luxury goods offer a secure, unchangeable connection to dynamic lifecycle information, allowing for immediate verification of origin and recycling guidelines via a smartphone tap. This application requires chip producers to engineer tags with advanced memory and cryptographic features to guarantee data accuracy throughout intricate supply chains. As noted in the 'NFC Forum 2024 Annual Report' released in February 2025, the organization has officially begun developing the NFC Digital Product Passport (NDPP) Standard to ensure global compatibility and facilitate consumer access to cloud-based product data using standard devices.

Simultaneously, the rise of SoftPOS and Tap-to-Phone technologies is reshaping payment acceptance by transforming standard NFC-equipped smartphones into secure point-of-sale terminals. This development opens digital payments to micro-merchants by removing the requirement for specialized hardware, thus broadening the market for NFC controllers that uphold strict EMV security norms on consumer devices. As merchants increasingly embrace this software-driven method, the need for superior NFC frontend chips in mobile phones is growing to guarantee dependable card reading capabilities. According to a Visa Inc. press release from April 2025 titled 'Visa's Tap to Phone Usage Surges 200%', the company recorded a 200 percent year-over-year rise in Tap to Phone activity, underscoring the rapid expansion of this infrastructure-light payment solution.

Key Market Players

NXP Semiconductors N.V.

Broadcom Inc.

Samsung Electronics Co., Ltd.

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STMicroelectronics N.V.

Texas Instruments Incorporated

Infineon Technologies AG

Qualcomm Technologies, Inc.

MediaTek Inc.

Toshiba Corporation

Renesas Electronics Corporation

Report Scope

In this report, the Global NFC Chip Market has been segmented into the following categories, in addition to the industry trends which have also been detailed below:

NFC Chip Market, By Application

- Television
- Smartphone
- Medical Equipment
- Other Applications

NFC Chip Market, By End-user

- Consumer Electronics
- Automotive
- Retail
- Banking and Finance

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- Medical
- Other

NFC Chip Market, By Region

- North America
  - United States
  - Canada
  - Mexico
- Europe
  - France
  - United Kingdom
  - Italy
  - Germany
  - Spain
- Asia Pacific
  - China
  - India
  - Japan
  - Australia
  - South Korea

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South America

Brazil

Argentina

Colombia

Middle East & Africa

South Africa

Saudi Arabia

UAE

Competitive Landscape

Company Profiles: Detailed analysis of the major companies present in the Global NFC Chip Market.

Available Customizations:

Global NFC Chip Market report with the given market data, TechSci Research offers customizations according to a company's specific needs. The following customization options are available for the report:

Company Information

Detailed analysis and profiling of additional market players (up to five).

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