



Delta Cyber Security Limited

Advanced Anti-cloneable NFC/RFID card

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Product Overview: Advanced Anti-cloneable NFC/RFID Card

What it is:

The Anti-cloneable NFC/RFID card is a secure and advanced card designed to prevent cloning, which is a common threat in payment and access control systems. These cards use NFC (Near Field Communication) and RFID (Radio Frequency Identification) technologies but have an added layer of security to block unauthorized cloning attempts.

Key Features:

Cloning Prevention: Integrates a special communication chip in both the card and the reader to actively manage data exchange. This chip blocks unauthorized devices from reading or copying the data, making the card impossible to clone.

Secure Data Transmission: The card and reader are designed to communicate securely, ensuring that only authorized devices can exchange information.

Real-World Tested: The prototype has been tested in controlled environments and real-world scenarios, proving its effectiveness in preventing cloning attempts.

Our Prototype

The special communication chip in this system is responsible for managing the entire communication process between the NFC/RFID card and the receiver. Communication will be established when both card and reader has same embedded chip on top of the NFC/RFID card and receiver device. It handles security, data integrity, synchronization, and ensures that both devices work seamlessly in an active communication mode. By doing so, it enhances the speed, reliability, and security of the data exchange between the two devices.

Applications:

- **Payment Cards:** Secure payment transactions with added protection against fraud.
- **Access Control:** Use in secure entry systems to prevent unauthorized access.
- **Prepaid Cards:** Can be used for metro, bus tickets, and other prepaid systems.
- **Government-issued card:** Serves as identification for National ID (NID), Driver's License, and Passport applications or verification.

Market Size:

Over 3-4 billion NFC cards are in use worldwide, primarily for banking and access control. This solution aims to improve the security of all these systems.

Patent:

- **Application Number:** 63/792,437
- **Applied by:** S M Asif Anam, CTO & Director, Delta CSL
- **Submission Date:** 22 April 2025
- **Acknowledgment:** Received by the United States Patent and Trademark Office (**USPTO**)