

# American National Standard

*INCITS/ISO/IEC 15693-2006[2011] - sh/b  
15693-2:2006*

*(ISO/IEC 15693-2:2006, IDT)*

Reaffirmed as  
INCITS/ISO/IEC 15693-2:2006 (R2016)

*Identification cards - Contactless integrated  
circuit cards - Vicinity cards - Part 2: Air  
interface and initialization*

**Developed by**



*Where IT all begins*



## INCITS/ISO/IEC 15693-2006[2011] - sh/b 15693-2:2006

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**Adopted by INCITS (InterNational Committee for Information Technology Standards) as an American National Standard.**

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## Identification cards — Contactless integrated circuit cards — Vicinity cards —

### Part 2: Air interface and initialization

*Cartes d'identification — Cartes à circuit(s) intégré(s) sans contact —  
Cartes de voisinage —*

*Partie 2: Interface et initialisation dans l'air*

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## Foreword

ISO (the International Organization for Standardization) and IEC (the International Electrotechnical Commission) form the specialized system for worldwide standardization. National bodies that are members of ISO or IEC participate in the development of International Standards through technical committees established by the respective organization to deal with particular fields of technical activity. ISO and IEC technical committees collaborate in fields of mutual interest. Other international organizations, governmental and non-governmental, in liaison with ISO and IEC, also take part in the work. In the field of information technology, ISO and IEC have established a joint technical committee, ISO/IEC JTC 1.

International Standards are drafted in accordance with the rules given in the ISO/IEC Directives, Part 2.

The main task of the joint technical committee is to prepare International Standards. Draft International Standards adopted by the joint technical committee are circulated to national bodies for voting. Publication as an International Standard requires approval by at least 75 % of the national bodies casting a vote.

ISO/IEC 15693-2 was prepared by Joint Technical Committee ISO/IEC JTC 1, *Information technology*, Subcommittee SC 17, *Cards and personal identification*.

This second edition cancels and replaces the first edition (ISO/IEC 15693-2:2000), of which it constitutes a minor revision. It also incorporates Technical Corrigendum ISO/IEC 15693-2:2000/Cor.1:2001.

ISO/IEC 15693 consists of the following parts, under the general title *Identification cards — Contactless integrated circuit cards — Vicinity cards*:

- *Part 1: Physical characteristics*
- *Part 2: Air interface and initialization*
- *Part 3: Anticollision and transmission protocol*

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## Introduction

ISO/IEC 15693 is one of a series of International Standards defining the parameters for identification cards as defined in ISO/IEC 7810 and the use of such cards for international interchange.

This part of ISO/IEC 15693 defines the electrical characteristics of the contactless interface between a vicinity card and a vicinity coupling device. The interface includes power and bi-directional communications.

This part of ISO/IEC 15693 does not preclude the incorporation of other standard technologies on the card.

Contactless card standards cover a variety of types as embodied in ISO/IEC 10536 (close-coupled cards), ISO/IEC 14443 (proximity cards) and ISO/IEC 15693 (vicinity cards). These are intended for operation when very near, nearby and at a longer distance from associated coupling devices, respectively.

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