

# American National Standard

INCITS/ISO/IEC 7816-2:2007 (R2013)

(ISO/IEC 7816-2:2007, IDT)

*Identification cards -- Integrated circuit cards  
-- Part 2: Cards with contacts -- Dimensions  
and location of the contacts*

**Developed by**



*Where IT all begins*



## INCITS/ISO/IEC 7816-2:2007 (R2018)

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

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## Identification cards — Integrated circuit cards —

Part 2:

### Cards with contacts — Dimensions and location of the contacts

*Cartes d'identification — Cartes à circuit intégré —*

*Partie 2: Cartes à contacts — Dimensions et emplacements des contacts*

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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 7816-2 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 7816-2:1999), which has been technically revised. It also incorporates material extracted from ISO/IEC 7816-2:1999/Amd.1:2004.

ISO/IEC 7816 consists of the following parts, under the general title *Identification cards — Integrated circuit cards*:

- *Part 1: Cards with contacts — Physical characteristics*
- *Part 2: Cards with contacts — Dimensions and location of the contacts*
- *Part 3: Cards with contacts — Electrical interface and transmission protocols*
- *Part 4: Organization, security and commands for interchange*
- *Part 5: Registration of application providers*
- *Part 6: Interindustry data elements for interchange*
- *Part 7: Interindustry commands for Structured Card Query Language (SCQL)*
- *Part 8: Commands for security operations*
- *Part 9: Commands for card management*
- *Part 10: Cards with contacts — Electronic signals and answer to reset for synchronous cards*
- *Part 11: Personal verification through biometric methods*
- *Part 12: Cards with contacts — USB electrical interface and operating procedures*
- *Part 13: Commands for application management in a multi-application environment*
- *Part 15: Cryptographic information application*

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## Introduction

This part of ISO/IEC 7816 is one of a series of standards defining the parameters for integrated circuit cards with contacts and the use of such cards for international interchange.

These cards are identification cards intended for information exchange negotiated between the outside and the integrated circuit in the card. As a result of an information exchange, the card delivers information (computation results, stored data) and/or modifies its content (data storage, event memorization).

The International Organization for Standardization (ISO) and International Electrotechnical Commission (IEC) draw attention to the fact that it is claimed that compliance with this document may involve the use of the following patents.

Title	Owner	Patent number
Data transmission method and card therefore	Axalto SA	ZL99810776.X DE699 13 166.9 ES 2212604 T3 GR3048211 JP2002 – 525720 EP1110173 US6840454 WO 00/16255

The patent rights concern the assignment of contacts to a differential pair, e.g. USB bus signals D+ and D–.

ISO and IEC take no position concerning the evidence, validity and scope of these patent rights.

The holder of these patent rights has assured ISO and IEC that he is willing to negotiate licences under reasonable and non-discriminatory terms and conditions with applicants throughout the world. In this respect, the statement of the holder of these patent rights is registered with ISO and IEC. Information may be obtained from:

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