
**Information technology — Identification
cards — Integrated circuit(s) cards with
contacts —**

**Part 2:
Dimensions and location of the contacts**

*Technologies de l'information — Cartes d'identification — Cartes à circuit(s)
intégré(s) à contacts —*

Partie 2: Dimensions et emplacements des contacts

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. 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.

International Standard ISO/IEC 7816-2 was prepared by Joint Technical Committee ISO/IEC JTC 1, *Information technology*, Subcommittee SC 17, *Identification cards and related devices*.

This first edition cancels and replaces ISO 7816-2:1988, which has been technically revised.

ISO/IEC 7816 consists of the following parts, under the general title *Information technology — Identification cards — Integrated circuit(s) cards with contacts*:

- *Part 1: Physical characteristics*
- *Part 2: Dimensions and location of the contacts*
- *Part 3: Electronic signals and transmission protocols*
- *Part 4: Interindustry commands for interchange*
- *Part 5: Numbering system and registration procedure for application identifiers*
- *Part 6: Interindustry data elements*
- *Part 7: Interindustry commands for structured card query language*
- *Part 8: Security related interindustry commands*
- *Part 9: Additional interindustry commands and security attributes*
- *Part 10: Electronic signals and answer to reset for synchronous cards*

Annexes A and B of this part of ISO/IEC 7816 are for information only.

Introduction

This part of ISO/IEC 7816 is one of a series of standards describing the parameters for integrated circuit(s) 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).

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Information technology — Identification cards — Integrated circuit(s) cards with contacts —

Part 2: Dimensions and location of the contacts

1 Scope

This part of ISO/IEC 7816 specifies the dimensions, locations and assignment for each of the contacts on integrated circuit(s) cards of an ID-1 card type.

This part of ISO/IEC 7816 is to be used in conjunction with ISO/IEC 7816-1.

2 Normative references

The following standards contain provisions which, through reference in this text, constitute provisions of this part of ISO/IEC 7816. At the time of publication, the editions indicated were valid. All standards are subject to revision, and parties to agreements based on this part of ISO/IEC 7816 are encouraged to investigate the possibility of applying the most recent editions of the standards indicated below. Members of IEC and ISO maintain registers of currently valid International Standards.

ISO/IEC 7810:1995, *Identification cards — Physical characteristics*.

ISO/IEC 7811-1:1995, *Identification cards — Recording technique — Part 1: Embossing*.

ISO/IEC 7811-2:1995, *Identification cards — Recording technique — Part 2: Magnetic stripe*.

ISO/IEC 7816-1:1998, *Identification cards — Integrated circuit(s) cards with contacts — Part 1: Physical characteristics*.

ISO/IEC 10373:1993, *Identification cards — Test methods*.

3 Dimensions of the contacts

The shape and the surface of the conductive zones which include each contact are not defined in this part of ISO/IEC 7816.

Each contact shall have a minimum rectangular surface area not less than the dimensions specified in figure 1.

This part of ISO/IEC 7816 does not define the maximum dimensions or shape of the contacts except for the requirement that each contact shall be electrically isolated from the other contacts.