

<b>STN</b>	<b>Identifikačné karty Karty s integrovanými obvodmi Časť 1: Karty s kontaktmi Fyzikálne vlastnosti</b>	<b>STN ISO/IEC 7816-1</b>  36 9734
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Identification cards  
Integrated circuit cards  
Part 1: Cards with contacts  
Physical characteristics

Cartes d'identification  
Cartes à circuit intégré  
Partie 1: Cartes à contacts  
Caractéristiques physiques

Identifikationskarten  
Chipkarten  
Teil 1: Karten mit Kontakten  
Physikalische Eigenschaften

Táto norma obsahuje anglickú verziu ISO/IEC 7816-1: 2011.

This standard includes the English version of ISO/IEC 7816-1: 2011.

#### **Nahradenie predchádzajúcich noriem**

Táto norma nahrádza STN ISO/IEC 7816-1 z júna 2004 v celom rozsahu.

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## **Anotácia**

Táto časť ISO/IEC 7816 špecifikuje fyzikálne vlastnosti kariet integrovaných obvodov s kontaktmi. Vzťahuje sa na identifikačné karty typu ID-1, ktoré môžu obsahovať razbu a/alebo magnetický prúžok a/alebo hmatovú identifikačnú značku, ako je uvedené v ISO/IEC 7811. Skúšobné metódy sú špecifikované v ISO/IEC 10373-1.

Táto časť ISO/IEC 7816 sa vzťahuje na karty, ktoré majú fyzické rozhranie s elektrickými kontaktmi. Nedefinuje však povahu, počet a polohu integrovaných obvodov na kartách.

## **Národný predhovor**

### **Normatívne referenčné dokumenty**

Nasledujúce dokumenty, celé alebo ich časti, sú v tomto dokumente normatívnymi odkazmi a sú nevyhnutné pri jeho používaní. Pri datovaných odkazoch sa použije len citované vydanie. Pri nedatovaných odkazoch sa použije najnovšie vydanie citovaného dokumentu (vrátane všetkých zmien).

POZNÁMKA 1. – Ak bola medzinárodná publikácia zmenená spoločnými modifikáciami, čo je indikované označením (mod), použije sa príslušná EN/HD.

POZNÁMKA 2. – Aktuálne informácie o platných a zrušených STN možno získať na webovej stránke [www.unms.sk](http://www.unms.sk).

ISO/IEC 7810 zavedená v STN ISO/IEC 7810 Identifikačné karty. Fyzikálne vlastnosti (ISO/IEC 7810) (36 9725)

ISO/IEC 10373-1 dosiaľ nezavedená

### **Vypracovanie normy**

Spracovateľ: Úrad pre normalizáciu, metrológiu a skúšobníctvo SR, Bratislava

Technická komisia: TK 37 Informačné technológie

## 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.

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. ISO and IEC shall not be held responsible for identifying any or all such patent rights.

ISO/IEC 7816-1 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 7816-1:1998), which has been technically revised. It also incorporates the Amendment ISO/IEC 7816-1:1998/Amd.1:2003.

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: 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*

## ISO/IEC 7816-1:2011(E)

### Introduction

ISO/IEC 7816 is a series of International Standards specifying integrated circuit cards and the use of such cards for interchange. These cards are identification cards intended for information exchange negotiated between the outside world and the integrated circuit in the card. As a result of an information exchange, the card delivers information (computation result, stored data) and/or modifies its content (data storage, event memorization).

Five parts are specific to cards with galvanic contacts and three of them specify electrical interfaces.

- ISO/IEC 7816-1 specifies physical characteristics for cards with contacts.
- ISO/IEC 7816-2 specifies dimensions and location of the contacts.
- ISO/IEC 7816-3 specifies electrical interface and transmission protocols for asynchronous cards.
- ISO/IEC 7816-10 specifies electrical interface and answer to reset for synchronous cards.
- ISO/IEC 7816-12 specifies electrical interface and operating procedures for USB cards.

All the other parts are independent of the physical interface technology. They apply to cards accessed by contacts and/or by contactless technology.

- ISO/IEC 7816-4 specifies organization, security and commands for interchange.
- ISO/IEC 7816-5 specifies registration of application providers.
- ISO/IEC 7816-6 specifies interindustry data elements for interchange.
- ISO/IEC 7816-7 specifies commands for structured card query language.
- ISO/IEC 7816-8 specifies commands for security operations.
- ISO/IEC 7816-9 specifies commands for card management.
- ISO/IEC 7816-11 specifies personal verification through biometric methods.
- ISO/IEC 7816-13 specifies commands for application management in a multi-application environment.
- ISO/IEC 7816-15 specifies cryptographic information application.

# Identification cards — Integrated circuit cards —

## Part 1:

# Cards with contacts — Physical characteristics

## 1 Scope

This part of ISO/IEC 7816 specifies the physical characteristics of integrated circuit cards with contacts. It applies to identification cards of the ID-1 card type, which can include embossing and/or a magnetic stripe and/or tactile identifier mark as specified in ISO/IEC 7811. Test methods are specified in ISO/IEC 10373-1.

This part of ISO/IEC 7816 applies to cards which have a physical interface with electrical contacts. It does not, however, define the nature, number and position of the integrated circuits in the cards.

## 2 Normative references

The following referenced documents are indispensable for the application of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

ISO/IEC 7810, *Identification cards — Physical characteristics*

ISO/IEC 10373-1, *Identification cards — Test methods — Part 1: General characteristics*

**koniec náhľadu – text ďalej pokračuje v platenej verzii STN**