INTERNATIONAL STANDARD

ISO/IEC 11694-2

Second edition 2000-04-15

Identification cards — Optical memory cards — Linear recording method —

Part 2:

Dimensions and location of the accessible optical area

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Cartes d'identification — Cartes à mémoire optique — Méthode
d'enregistrement linéaire — ai)

Partie 2: Dimensions et emplacement de la zone optique accessible

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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.

International Standards are drafted in accordance with the rules given in the ISO/IEC Directives, Part 3.

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.

Attention is drawn to the possibility that some of the elements of this part of ISO/IEC 11694 may be the subject of patent rights. ISO and IEC shall not be held responsible for identifying any or all such patent rights.

International Standard ISO/IEC 11694-2 was prepared by Joint Technical Committee ISO/IEC JTC 1, *Information technology*, Subcommittee SC 17, *Identification cards and related devices*.

This second edition cancels and replaces the first edition (ISO/IEC 11694-2:1995), which has been technically revised.

ISO/IEC 11694 consists of the following parts, under the general title *Identification cards* — *Optical memory cards* — *Linear recording method*: h STANDARD PREVIEW

- Part 1: Physical characteristics
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- Part 2: Dimensions and location of the accessible optical area

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— Part 3: Optical properties and characteristics alog/standards/sist/aacdf270-06ec-4dfe-8b8f-

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- Part 4: Logical data structures

Annex A forms a normative part of this part of ISO/IEC 11694.

Introduction

This part of ISO/IEC 11694 is one of a series of standards describing the parameters for optical memory cards and the use of such cards for the storage and interchange of digital data.

The standards recognize the existence of different methods for recording and reading information on optical memory cards, the characteristics of which are specific to the recording method employed. In general, these different recording methods will not be compatible with each other. Therefore, the standards are structured to accommodate the inclusion of existing and future recording methods in a consistent manner.

This part of ISO/IEC 11694 is specific to optical memory cards using the linear recording method. Characteristics which apply to other specific recording methods shall be found in separate standards documents.

This part of ISO/IEC 11694 defines the dimensions and location of the accessible optical area and the extent of compliance with, addition to, and/or deviation from the relevant base document, ISO/IEC 11693.

The user's attention is called to the possibility that compliance with this part of ISO/IEC 11694 may require use of an invention covered by patent rights and/or other material covered by copyrights. By publication of this part of ISO/IEC 11694, no position is taken with respect to the validity of this claim or of any patent rights or copyrights in connection therewith.

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Identification cards — Optical memory cards — Linear recording method — Part 2: Dimensions and location of the accessible optical area

1 Scope

This part of ISO/IEC 11694 defines the dimensions and location of the accessible optical area of optical memory cards with ID-1 dimensions using the linear recording method.

2 Normative references

The following normative documents contain provisions which, through reference in this text, constitute provisions of this part of ISO/IEC 11694. For dated references, subsequent amendments to, or revisions of, any of these publications do not apply. However, parties to agreements based on this part of ISO/IEC 11694 are encouraged to investigate the possibility of applying the most recent editions of the normative documents indicated below. For undated references, the latest edition of the normative document referred to applies. Members of ISO and IEC maintain registers of currently valid International Standards.

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

ISO/IEC 11694-2:2000

ISO/IEC 11693:1994, Identification cards - Optical memory cards - General characteristics.

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ISO/IEC 11694-4:1996, Identification cards — Optical memory cards — Linear recording method — Part 4: Logical data structures.

3 Terms and definitions

For the purposes of this part of ISO/IEC 11694, the terms and definitions given in ISO/IEC 11693 and the following apply.

3.1

pulse position modulation (PPM)

an encoding method where binary data is conveyed by the presence, or absence, of a mark at a given position

NOTE One mark defines one data transition.

3.2

pulse width modulation (PWM)

an encoding method where binary data is conveyed by the position of the edges of a mark

NOTE One mark defines two data transitions.

3.3

reference edges

using the card orientation shown in Figure 1, the reference edges are the lower horizontal edge and the left vertical edge

3.4

reference track

first track located nearest the horizontal reference edge of the card as shown in Figure 1

4 Dimensions and location

This part of ISO/IEC 11694 applies to cards containing only one accessible optical area. Optional card layouts are described in annex A.

4.1 Accessible optical area

The dimensions and location of the accessible optical area shall be as shown in Figure 1.

4.2 Dimension C

Dimension C as shown in Figure 1 is not fixed by this part of ISO/IEC 11694 but shall be left to each industry user group to specify for those applications requiring interchange. Dimension C shall never be less than 9,5 mm nor greater than 49,2 mm.

4.3 Dimension X

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When using PWM, dimension X shall be 3,0 mm maximum. When using PPM, dimension X shall be 1,0 mm maximum. See Figure 1 and ISO/IEC 11694-4:1996, annex A or annex B.

4.4 Dimension Y

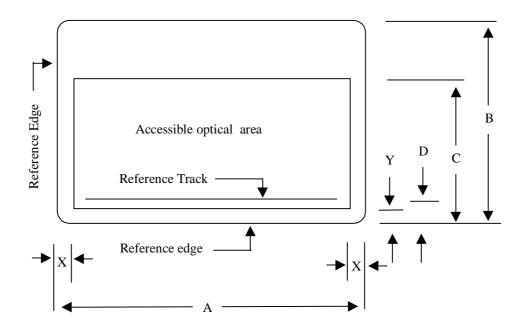
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Dimension Y, as shown in Figure 1, shall be less than dimension D by at least 1,0 mm. When using PWM, dimension Y shall be 4,5 mm maximum. See ISO/IEC 11694-4:1996, annex A.

4.5 Skew

The skew of the reference track relative to the horizontal reference edge of the card shall be less than or equal to 0,2°. See Figure 1.

Dimensions in millimetres



A = 85,47 to 85,72 (ISO/IEC 7810) $D = 5,8 \pm 0,7$ E = 53,92 to 54,03 (ISO/IEC 7810) E = 53,92 to 54,03 (ISO/IEC 7810) E = 580,47 to 85,72 (ISO/IEC 7810) E = 580,43 to 85,72 (ISO/IEC 7810) E = 580,43 to 85,72 (ISO/IEC 7810) E = 580,43 to 85,72 (ISO/IEC 7810)

NOTE Drawing not to scale.

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Figure 1 — Dimensions and location of the accessible optical area

Annex A

(normative)

Optional card layouts

A.1 Scope

Annex A of this part of ISO/IEC 11694 provides information concerning the dimensions and locations of the accessible optical area of optical memory cards using the linear recording method which may include other technologies in addition to the accessible optical area.

A.2 Accessible optical area

A.2.1 Location

The accessible optical area can be located on either face of the card.

A.2.2 Reference track

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The reference track can be located at the "top" or "bottom" of the card. (standards.iten.ai)

A.2.3 Size

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The size of the accessible optical area can be adjusted to accommodate other technologies included on the card.

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A.2.4 Coexistence

Technologies located coincident with the accessible optical area on either side on the card should not interfere with the accessible optical area.

Bibliography

- [1] ISO/IEC 7811-2:1995, Identification cards Recording technique Part 2: Magnetic stripe
- [2] ISO/IEC 7811-3:1995, Identification cards Recording technique Part 3: Location of embossed characters on ID-1 cards.
- [3] ISO/IEC 7811-4:1995, Identification cards Recording technique Part 4: Location of read-only magnetic tracks Tracks 1 and 2.
- [4] ISO/IEC 7811-5:1995, Identification cards Recording technique Part 5: Location of read-write magnetic track Track 3.
- [5] ISO/IEC 7816-2:1999, Identification cards Integrated circuit(s) card with contacts Part 2: Dimensions and location of contacts.

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