
Identification cards — ICC-managed devices —

Part 2: Physical characteristics and test methods for cards with devices

*Cartes d'identification — Dispositifs contrôlés par carte à circuit
intégré (ICC) —*

*Partie 2: Caractéristiques physiques et méthodes d'essai des cartes
avec les dispositifs*





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ISO copyright office
CP 401 • Ch. de Blandonnet 8
CH-1214 Vernier, Geneva
Phone: +41 22 749 01 11
Email: copyright@iso.org
Website: www.iso.org

Published in Switzerland

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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.

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This document was prepared by Technical Committee ISO/IEC JTC 1, *Information technology*, Subcommittee SC 17, *Cards and security devices for personal identification*.

This second edition cancels and replaces the first edition (ISO/IEC 18328-2:2015), which has been technically revised.

The main changes are as follows:

- updated [Annex A](#) and changed status to normative: ID-T size card;
- added a new normative [Annex B](#): ID-B size card;
- added a new informative [Annex C](#): Applicability of ISO/IEC 10373-1 test methods for ID-T and ID-B size cards;
- added a new informative [Annex D](#): Further test methods.

A list of all parts in the ISO 18328 series can be found on the ISO website.

Any feedback or questions on this document should be directed to the user's national standards body. A complete listing of these bodies can be found at www.iso.org/members.html and www.iec.ch/national-committees.

Identification cards — ICC-managed devices —

Part 2:

Physical characteristics and test methods for cards with devices

1 Scope

This document defines physical characteristics and test methods for cards with devices, including but not limited to, power supplying devices, displays, sensors, microphones, loudspeakers, buttons or keypads. This document also covers aspects of coexistence of technologies of devices on the card and other machine-readable card technologies.

Additional requirements related to biometric capture devices are defined in ISO/IEC 17839-2. Such requirements can be applied in addition to the ones defined in this document. ISO/IEC 17839-2 defines a type S2 card; the physical dimensions of the type S2 card are specified in [Annex A](#).

2 Normative references

The following documents are referred to in the text in such a way that some or all of their content constitutes requirements 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 7816-1, *Identification cards — Integrated circuit cards — Part 1: Cards with contacts — Physical characteristics*

ISO/IEC 10373-1, *Cards and security devices for personal identification — Test methods — Part 1: General characteristics*

ISO/IEC 14443-1, *Cards and security devices for personal identification — Contactless proximity objects — Part 1: Physical characteristics*

ISO/IEC 18328-1, *Identification cards — ICC-managed devices — Part 1: General framework*

ISO/IEC 18745-1:2018, *Test methods for machine readable travel documents (MRTD) and associated devices — Part 1: Physical test methods for passport books (durability)*