

ISO/IEC 7816 Integrated Circuit Card Family of Specifications

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Table 1: Data sheet for Integrated Circuit Card Family of Specifications

Title	Integrated Circuit Card Family of Specifications
Acronym	
Version	1999-2020
Document Number	7816
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Note: The following is an excerpt from the official ISO catalog. It is provided here as a convenience and is not authoritative. Refer to the original document as the authoritative reference.

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 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 7816-01 Identification cards — Integrated circuit cards — Part 1: Cards with contacts — Physical characteristics](#)
- [ISO/IEC 7816-02 Identification cards — Integrated circuit cards — Part 2: Cards with contacts — Dimensions and location of the contacts](#)
- [ISO/IEC 7816-03 Identification cards — Integrated circuit cards — Part 3: Cards with contacts — Electrical interface and transmission protocols](#)
- [ISO/IEC 7816-10 Identification cards — Integrated circuit\(s\) cards with contacts — Part 10: Electronic signals and answer to reset for synchronous cards](#)
- [ISO/IEC 7816-12 Identification cards - Integrated circuit cards — Part 12: Cards with contacts — USB electrical interface and operating procedures](#)

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

- [ISO/IEC 7816-04 Identification cards — Integrated circuit cards — Part 4: Organization, security and commands for interchange](#)
- [ISO/IEC 7816-05 Identification cards — Integrated circuit cards — Part 5: Registration of application providers](#)
- [ISO/IEC 7816-06 Identification cards — Integrated circuit cards — Part 6: Interindustry data](#)

elements for interchange

- [ISO/IEC 7816-07 Identification cards — Integrated circuit\(s\) cards with contacts — Part 7: Interindustry commands for Structured Card Query Language \(SCQL\)](#)
- [ISO/IEC 7816-08 Identification cards — Integrated circuit cards — Part 8: Commands and mechanisms for security operations](#)
- [ISO/IEC 7816-09 Identification cards — Integrated circuit cards — Part 9: Commands for card management](#)
- [ISO/IEC 7816-11 Identification cards — Integrated circuit cards — Part 11: Personal verification through biometric methods](#)
- [ISO/IEC 7816-13 Identification cards — Integrated circuit cards — Part 13: Commands for application management in a multi-application environment](#)
- [ISO/IEC 7816-15 Identification cards — Integrated circuit cards — Part 15: Cryptographic information application](#)

ISO/IEC 10536 specifies access by close coupling. ISO/IEC 14443 and ISO/IEC 15693 specify access by radiofrequency. Such cards are also known as contactless cards.

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