

ICS 35.240.15
CCS L 64



**NATIONAL STANDARD OF THE
PEOPLE'S REPUBLIC OF CHINA**

GB/T 22351.1-2008

**Identification cards -- Contactless integrated circuit(s) cards --
Vicinity cards -- Part 1: Physical characteristics**

识别卡 无触点的集成电路卡 邻近式卡 第1部分：物理特性

(English Translation)

Issued on: August 6, 2008

Implemented on: January 1, 2009

Issued by: Standardization Administration of China

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Foreword

GB/T 22351 in the "Identification cards - Contactless integrated circuit cards Proximity card" always be entitled divided into the following four parts.

- Part 1. Physical characteristics;
- Part 2. Air Interface and initialization;
- Part 3. Anti-collision and transmission protocol;
- Part 4. Extended command set and security features.

This section GB/T 22351 Part 1.

This section identical with the international standard ISO/IEC 15693-1:2000 "Identification cards - Contactless integrated circuit cards - Proximity cards Part 1. Physical characteristics "(in English).

For ease of use, the ISO/IEC 15693-1:2000, this section made the following editorial changes.

- a) instead of as a decimal by decimal comma " , " . " , " ;
- b) Remove the preface to international standards by modifying the ISO/IEC 15693-1:2000 Introduction.

This part of the Annex A, Annex B, Annex C is informative appendices.

Please note that some of the content of this section may involve patents, this part of the release mechanism should not bear the responsibility to identify these patents.

This section proposed by the People's Republic of China Ministry of Information Industry.

This part of the National Information Technology Standardization Technical Committee centralized.

Introduction

GB/T 22351 series of standards is one of the identification cards used are described GB/T 14916-defined parameters and identification card of international exchange.

This section GB/T 22351 describes the physical characteristics of the near-in card.

This section does not exclude other technical standards for cards, such as a standard in the data cited in Appendix A.

Non-contact IC card standard covers ISO/IEC 14443 (proximity cards) and GB/T 22351 (proximity cards) included in each Types of cards. They are associated with work in the case of close coupling devices and more distant.

GB/T 22351 proximity cards permit subject to ISO/IEC 14443 standard non-contact IC card of the work environment.

GB/T 22351.1-2008/ISO/IEC 15693-1:2000 Identification cards - Contactless integrated circuit cards Proximity cards Part 1. Physical characteristics

1 Scope

This section GB/T 22351 specifies the proximity cards (VICC) physical characteristics. It is suitable for operation in the vicinity of the coupling device ID-1 Identification cards.

This section should be GB/T 22351 each subsequent part of a combination of them to use.

2 Normative references

The following documents contain provisions which, through reference GB/T 22351 in this section constitute provisions of this section. For dated reference documents Member, all subsequent amendments (not including errata content) or revisions do not apply to this section, however, encouraged to reach under this section Parties to research agreement to use the latest versions of these documents. For undated reference documents, the latest versions apply to this section.

GB/T 14916 Identification cards - Physical characteristics (GB/T 14916-2006, ISO/IEC 7810:2003, IDT) GB/T 17554.1 Identification cards - Test methods - Part 1. General characteristics of the test (GB/T 17554.1-2006, ISO/IEC 10373-1:1998, MOD) GB/T 17626.2 Electromagnetic compatibility Testing and measurement techniques - Electrostatic discharge immunity test (GB/T 17626.2-2006, IEC 61000-4-2:2001, IDT) ISO/IEC 10373-7 Identification cards - Test methods - Part 7. Proximity card

3 Terms and Definitions

The following terms and definitions apply to this part of the GB/T 22351 of.

Perform processing and/or storage of electronic devices used.

Without the use of energized components to perform a handshake signal and supplying energy to the card and the card (ie, there is no external interface device to the card set included Ohmic circuit path).

One kind of ID-1 card type (e.g. GB/T 14916 as specified), the IC is loaded on top of it, and the communication with the IC with contactless manner.

One kind of ID-1 type card, which is loaded circuits and coupling means to communicate with the integrated circuit by the neighboring coupling device Inductive coupling performed.

VICC inductively coupled to provide power and control exchanged with VICC data read/write device.

GB/T 22351.1-2008/ISO/IEC 15693-1:2000