

ICS 35.040
CCS L 64



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

GB/T 33848.3-2017

**Information technology -- Radio frequency identification -- Part
3: Parameters for air interface communications at 13.56 MHz**

Issued on: July 31, 2017

Implemented on: February 1, 2018

**Issued by: General Administration of Quality Supervision, Inspection and
Quarantine of the People's Republic of China, Standardization
Administration of the People's Republic of China**

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Foreword

GB/T 33848 "Information Technology Radio Frequency Identification" is divided into six parts.

--- Part 1. Reference structure and standardized parameter definitions;

--- Part 2. Air interface communication parameters below 135kHz;

--- Part 3. 13.56 MHz air interface communication parameters;

--- Part 4. 2.45GHz air interface communication parameters;

--- Part 6. 840MHz ~ 845MHz and 920MHz ~ 925MHz air interface communication parameters;

--- Part 7. Active air interface communication parameters at .433 MHz.

This section GB/T 33848 Part 3.

This section drafted in accordance with GB/T 1.1-2009 given rules.

This section uses the redrafted law reference ISO /IEC 18000-3.2004 "Information Technology for Radio Frequency Identification Article 3

Part. 13.56 MHz air interface communication parameters "preparation, and ISO /IEC 18000-3.2004 degree of non-equivalent.

This part is proposed by the Ministry of Industry and Information Technology of the People's Republic of China.

This part of the National Information Technology Standardization Technical Committee (SAC/TC28) centralized.

This part of the drafting unit. China Electronics Standardization Institute, China Article Coding Center, the National Radio Monitoring Center, Shanghai Fudan

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Introduction

The issuing authority for this document draws attention to the fact that statements that conform to this document may involve the use of the relevant patents in Appendix A.

The issuing authority of this document has no position whatsoever about the truthfulness, validity and scope of this patent.

The patentee has assured the issuing authority of this document that he is willing to work with any applicant on reasonable and non-discriminatory terms and conditions,

Negotiate a patent license. The patent holder's statement has been filed with the issuing authority of this document. Related information is available from below

Contact to get.

Patents .200710154635.7 Radio frequency identification in the launch and response methods and devices

200710163620.7 Radio frequency identification signal response method and system, label and reader

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Please note that in addition to the above patents, some of the contents of this document may still involve patents. The issuing agencies of this document are not responsible for identifying these specializations

Lee's responsibility.

Information technology - Radio frequency identification - Part 3.

13.56MHz air interface communication parameters

1 Scope

This section GB/T 33848 specifies 13.56MHz radio frequency identification air interface communication parameters, including physical and media access control

Layer parameters, protocol working methods and parameters, anti-collision management methods and parameters.

This section applies to 13.56MHz RFID reader and tag design, production, testing and use.

2 Normative references

The following documents for the application of this document is essential. For dated references, only the dated version applies to this article

Pieces. For undated references, the latest edition (including all amendments) applies to this document.

GB/T 7421-2008 Information Technology - Telecommunications and information exchange between systems Advanced Data Link Control (HDLC) procedures

GB/T 14916-2006 Identification card physical characteristics

ISO /IEC 15963 Information technology Radio frequency identification for the management of goods Radio frequency identification tag (Identificationtech-

nology-Radiofrequencyidentificationforitemmanagement-UniqueidentificationforRFtags)

ISO /IEC TR 18080-3 Information technology - Radio frequency identification device conformance testing methods - Part 3.

Interface testing methods

(Informationtechnology-Radiofrequencyidentificationdeviceconformance

testmethods-Part 3.Testmethodsforairinterfacecommunicationsat13.56MHz)

ISO /IEC 19762 (all parts) Information Technology - Automatic Identification and Data Acquisition Technology Coordination Vocabulary (Informationtech-

nology-Automatic identification and datacapture techniques-Harmonized vocabulary)

3 Terms and definitions

ISO /IEC 19762 defines the following terms and definitions apply to this document.

3.1

Modulation index modulationindex

The ratio of the sum of the difference between the maximum and the minimum of the signal amplitude, expressed as $(a-b)/(a+b)$, where a and b are the amplitudes of the signal amplitude

Maximum and minimum values.

3.2

Subcarrier

Used to modulate the carrier signal.

4.1 symbol

The following symbols apply to this document.

fc. Workplace frequency (carrier frequency).

fs. subcarrier frequency.

4.2 Abbreviations

The following abbreviations apply to this document.