

Translated English of Chinese Standard: GB/T18347-2001

www.ChineseStandard.net → Buy True-PDF → Auto-delivery.

Sales@ChineseStandard.net

GB

NATIONAL STANDARD OF THE
PEOPLE'S REPUBLIC OF CHINA

ICS 35.040

A 24

GB/T 18347-2001

idt ISO/IEC 15417:2000

Code 128

128 条码

Issued on: April 09, 2001

Implemented on: October 01, 2001

Issued by: National Bureau of Quality and Technical Supervision

Table of Contents

Foreword.....	3
ISO Foreword.....	4
1 Scope.....	5
2 Normative references.....	5
3 Terms and definitions	5
4 Technical requirements	6
4.1 Symbology characteristics.....	6
4.2 Symbol structure	6
4.3 Character assignments	7
4.4 Dimensional requirements.....	14
4.5 Reference decode algorithm	15
4.6 Symbol quality	18
4.7 User-defined application parameters	19
4.8 Transmitted data	20
Annex A (normative) Additional features of Code 128.....	21
Annex B (normative) Special considerations relating to Function Code 1 (FNC1)	23
Annex C (normative) Symbology identifiers	25
Annex D (informative) Relationship of symbol character value to ASCII value	26
Annex E (informative) Use of Start, Code Set and Shift characters to minimize symbol width	27
Annex F (informative) GB/T 15273.1 (Latin Alphabet no. 1) character set.....	29
Annex G (informative) User-defined application parameters	31
Annex H (informative) Guidelines for the use of Code 128	32

Foreword

This Standard identically adopts ISO/IEC 15417:2000 "Information technology - Automatic identification and data capture techniques - Bar code symbology specification - Code 128". Code 128 is a one-dimensional bar code that can express a variety of information. It can represent all characters in the ASCII character set and extended ASCII character set. Among all one-dimensional barcode symbology, it is the symbology that represents the most information. Therefore, code 128 is suitable for automatic data collection in various fields. Since code 128 has a wide range of applications, it has been widely used in the world, and its technology is relatively mature, so this Standard identically adopts the international standard. GB/T 15425-1994 "Bar code 128 for trade unit" formulated in 1994 is a subset of code 128. It is completely consistent with code 128 in terms of technical content such as bar space combination, character set. But its scope of application is limited to EAN • UCC system. In order to meet the application requirements of code 128 in fields other than EAN • UCC (such as medical and health, industrial production), this Standard is formulated.

Annex A, Annex B and Annex C of this Standard are normative.

Annex D, Annex E, Annex F, Annex G and Annex H of this Standard are informative.

This Standard was proposed by and shall be under the jurisdiction of China Article Numbering Center.

The drafting organizations of this Standard: China Article Numbering Center.

Main drafters of this Standard: Guo Weihua, Zhang Chenghai, Li Sucai, Huang Zexia.

Code 128

1 Scope

This Standard defines the technical requirements for the bar code symbology known as Code 128, including Code 128 symbology characteristics, data character encodation, dimensions, decoding algorithms and the application parameters which need to be defined by users as well as symbology identifier prefix string.

This Standard is applicable to automatic data collection in various fields.

2 Normative references

The following standards contain provisions which, through reference in this Standard, constitute provisions of this Standard. At the time of publication, the editions indicated are valid. All standards are subject to revision. The parties who are using this Standard shall explore the possibility of using the latest version of the following standards.

GB/T 1988-1998, *Information technology-7-bit Coded character set for information interchange* (eqv ISO/IEC 646:1991)

GB/T 12905-2000, *Bar coding terminology*

GB 13000.1-1993, *Information technology - Universal multiple - Octet coded character set (UCS) - Part 1: Architecture and basic multilingual plane* (idt ISO/IEC 10646-1:1993)

GB/T 15273.1-1994 *Information processing - 8-bit single-byte coded graphic character sets - Part 1: Latin alphabet No.1*

ISO/IEC 15424, *Information technology - Automatic identification and data capture techniques - Data carrier/symbology Identifiers*

ISO/IEC 15416, *Information technology - Automatic identification and data capture techniques - Bar code print quality test specification - Linear symbols*

3 Terms and definitions

This Standard uses the terms and definitions in GB/T 12905-2000.

This is an excerpt of the PDF (Some pages are marked off intentionally)

Full-copy PDF can be purchased from 1 of 2 websites:

1. <https://www.ChineseStandard.us>

- SEARCH the standard ID, such as GB 4943.1-2022.
- Select your country (currency), for example: USA (USD); Germany (Euro).
- Full-copy of PDF (text-editable, true-PDF) can be downloaded in 9 seconds.
- Tax invoice can be downloaded in 9 seconds.
- Receiving emails in 9 seconds (with download links).

2. <https://www.ChineseStandard.net>

- SEARCH the standard ID, such as GB 4943.1-2022.
- Add to cart. Only accept USD (other currencies - <https://www.ChineseStandard.us>).
- Full-copy of PDF (text-editable, true-PDF) can be downloaded in 9 seconds.
- Receiving emails in 9 seconds (with PDFs attached, invoice and download links).

Translated by: Field Test Asia Pte. Ltd. (Incorporated & taxed in Singapore. Tax ID: 201302277C)

About Us (Goodwill, Policies, Fair Trading...): <https://www.chinesestandard.net/AboutUs.aspx>

Contact: Wayne Zheng, Sales@ChineseStandard.net

Linkin: <https://www.linkedin.com/in/waynezhengwenrui/>

----- The End -----