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

GB/T 15425-2014

Replacing GB/T 15425-2002

Bar code for commodity-128 bar code

商品条码 128条码

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Table of Contents

1	Scope
2	Normative references
3	Terms and definitions
4	Requirements
4.1	Symbol structure...
4.2	GS1-128 code character set...
4.3	Size requirements...
4.4	Algorithm of the reference decode...
4.5	Symbol quality...
5	Application parameters of GS1-128 code
5.1	Symbol height...
5.2	Symbol length...
5.3	Human-recognizable characters...
5.4	Symbol grade requirements...
5.5	Transmission data (FNC1)... 20 6 GS1-128 code character string encoding/decoding rules...
6	GS1-128 code character string encoding/decoding rules
6.1	Basic structure of GS1-128 code that uses the application identifier and the link...
6.2	Link...
6.3	Separating character (FNC1)...
6.4	Mixed use of ITF-14 and GS1-128 code and other symbologies...
	Appendix A
	Appendix B

Foreword

This Standard was drafted in accordance with the rules given in GB/T 1.1-2009. The code 128 which is specified in this Standard is an application subset of GB/T 18347 "Code 128". This Standard replaces GB/T 15425-2002, "UCC/EAN - 128 bar code"; compared with GB/T 15425-2002, the major technical changes are as follows: -- Change the standard name to "Bar code for commodity - 128 bar code"; -- Modify the name of the standardization organization in the Standard accordingly because the international organization EAN·UCC was renamed GS1; -- Add an application example of the minimum

symbol length rule in the informative Appendix A; -- Make editorial changes according to the new version of "GS

1 Specification (V10)". This Standard is revised by referring to "Linear Bar Code -- GS1-128 Code Specification", Section 4 of Chapter 5 of "GS

1 Specification (V10)" which is formulated by GS1, and according to the practical situation of our country. This Standard shall be under the jurisdiction of National Technical Committee 267 on Logistics Information Management of Standardization Administration of China (SAC/TC 267). The drafting organizations of this Standard. GS

1 China, Zhejiang Article Code Center, Shaanxi Institute of Standardization, Ningbo Institute of Standardization, Hunan Institute of Standardization, Henan Institute of Standardization, Beijing Wuzi University. The drafters of this Standard. Zhang Nan, Ding Wei, Liu Lizhen, Du Jingrong, Zhang Peiying, Zhou Qin, Lou Qinghua, Li Chang, Gong He, Wang Chenglin. The previous versions of the standards which are replaced by this Standard are. -- GB/T 15425-1994, GB/T 15425-2002. Bar code for commodity - 128 bar code

1 Scope

GB/T 15425-2014 is the Chinese national standard on bar code for commodity-128 bar code, in the field of information technology. The /T suffix marks it as a recommended standard: it is not compulsory by itself, but it becomes binding as soon as a contract, a tender or a customer specification calls it up - which in practice is how most foreign buyers meet it. It was issued on 3 September 2014 by the General Administration of Quality Supervision, Inspection and Quarantine of the People's Republic of China; Standardization Administration of China, and has been in force since 1 February 2015. Classification: ICS 35.040, CCS A24. This page is published from the official record of the standard held by the Chinese standards administration: the identification, the dates, the classification and the issuing body are taken from there. The clause text, the tables and the numeric limits are in the document itself, which is delivered complete in English translation.

This Standard specifies contents such as the structure, bar code character set, bar code symbol dimension, quality assurance of GS1 system code 128 (hereinafter referred to as GS1-128 code), and the application parameters, character string encoding and decoding rules of GS1-128 code.

2 Normative references

The following documents are indispensable for the application of this document. For dated references, only the dated version applies to this document. For undated references, the latest edition (including all amendments) applies to this document.

GB/T 1988, Information technology - 7-bit Coded character set for information interchange

3 Terms and definitions

Terms and definitions determined by GB 12904 and GB/T 12905 are applicable to this document.

4 Requirements

The composition of the GS1-128 code symbol, from left to right, is shown as follows: The function character is used to indicate allowed special operations or applications to the bar code scanner, among which.

5 Application parameters of GS1-128 code

The length of the GS1-128 code symbol depends on the number of encoded characters. Evaluate the symbol quality in the form of symbol grade; the definition of its parameters shall be in accordance with the provisions of GB/T 18348.

6 GS1-128 code character string encoding/decoding rules

For the link of variable-length character string (referring to the case where the first 2 bits of all application identifiers are not included in Table 4), data separating characters are required. The preferred position of the GS1-128 code (additional bar code) that represents additional information shall be on the same horizontal line as the independent bar code (main bar code) that contains GTIN, SSCC or other GS1 codes; the additional bar code shall be as close to the main bar code as possible under the prefix of a clear area that does not affect the main bar code.

Appendix A

(Informative) GS1-128 code symbol length minimum character set selection and application examples In the GS1-128 code symbol (or other code 128), the same data can be expressed differently by using different combinations of start, switch and escape characters.

Appendix B

(Informative) Relationship between bar code character value and ASCII value The transition relation between bar code character value (S) and ASCII value is as follows: