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

GB 5199-2010

Replacing GB 5199-2001

**Information technology - Chinese ideogram coded character set
(basic set). 15×16 dot matrix font**

信息技术 汉字编码字符集（基本集） 15×16点阵字型

(English Translation)

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Foreword

In addition to all the technical standards of the word table Zone 1 to 11 area content is mandatory.

This standard specifies a 15 x 16 dot matrix Chinese character fonts on a "first VARIANT," and "Simplified Summary Table," "General printing Chinese characters

Table "and" Modern Chinese Characters generic word table "(see reference) as the basis and in accordance with the principles of the current Chinese Characters finishing and design.

This standard replaces GB 5199-2001 "Information technology - Chinese ideogram coded character set (basic set) - 16 dot matrix", and GB 5199-Compared to 2001, the main changes are as follows.

- In order to further improve the quality of fonts and ensure harmonization between the standards for mathematical symbols error 01 area is revised;
- On 03 areas, 10-character errors district, lowercase letters from the reference line errors corrected;
- Area of 04, 05 area Japanese kana/katakana character part has been redesigned;
- Do not meet the Chinese character font specification modified some of the characters have also been amended.

The Standard Appendix A, Appendix B and Appendix C is a normative appendix.

The standard proposed by the Ministry of Industry and Information Technology of the People's Republic of China.

This standard by the National Information Technology Standardization Technical Committee

(SAC/TC28) centralized.

This standard was drafted. China Electronics Standardization Institute, the Institute of the Second Artillery Equipment Academy fourth.

Drafters of this standard. Zhaiguang Chen, Zhou Jiping, Wang Lijian, Li Wei, Dai Chung, on behalf of the red, bear Tao Wong.

This standard previously issued as follows.

--- GB/T 5199.1 ~ 5199.2-1985;

--- GB 5199-2001.

Introduction

Authorization to use the relevant font data transfer matters, to maintain the standard font data, updating and revision of unity is responsible for the centralized units.

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Information technology - Chinese ideogram coded character set (basic set) 15 x 16 dot matrix font

1 Scope

This standard specifies the graphic character in GB 2312-1980 15 x 16 dot matrix.

This standard applies to all kinds of electronic information products, all kinds of digital products, but also for other related equipment.

2 Normative references

The following documents contain provisions which, through reference in this standard and become the standard terms. For dated references, subsequent Amendments (not including errata content) or revisions do not apply to this standard, however, encourage the parties to the agreement are based on research Whether the latest versions of these documents. For undated reference documents, the latest versions apply to this standard.

GB 2312-1980 exchange of information with Chinese characters coded character set basic set

3 Terms and Definitions

The following terms and definitions apply to this standard.

Font glyph

One kind of recognizable abstract graphic symbol, it does not depend on any particular design.

Font font

Glyph image set having the same basic design, such as. Times New Roman.

Bitmap fonts dotmatrixfont in a collection of dots to show the graphic character (type) form.

Word order characterorder Graphic character in the set are arranged according to certain rules of order.

4 Graphic character

This standard is based on the provisions of GB 2312-1980, and accordingly provides.

01 ~ 09 area of foreign letters and other graphic characters 682;

16 to 55 district-level first kanji 3755;

56 to 87 characters zone second stage 3008;

Also in the District 8 27-32 supplemented with 6 characters; 10 District 01-94 supplemented with 94 half-word graphic characters; 11 District 01 to 32 supplemented with 32 half-word character pinyin, see Appendix A.

This standard provides a total of 7577 graphic characters.

5 Standard data management

To strengthen the management of standard IT products with Chinese character fonts and font data to ensure consistency in the implementation of this standard and data Correctness to authorize the use of font data transfer matters, to maintain the standard font data, updating and revision, unified by the NFP be responsible for.

The method represents bitmap fonts

6.1 Grid

Equidistant grid by a number of vertical and horizontal lines intersect to form.

This standard specifies that the 15 x 16 dot matrix font, which is a horizontal grid 15 grid, 16 longitudinal grid. The center of each square is defined as the point of Center position.

Raster bitmap fonts only constitute points for positioning, 15 x 16 dot matrix grid shown in Figure 1.

Figure 1 15 x 16 dot raster

6.2 Points

Point is the smallest unit constituting the lattice-shaped, circular indicated that it is located within the black areas of the parties to the grid.

6.3 Lattice words

Word character dot-matrix font by the number of points placed within the grid set to represent. Chinese character "Yong" in words such as 15 x 16 dot matrix

Figure 2.

Kanji word "permanent" 2 15 x 16 dot matrix diagram

6.4 Font data

15 x 16 dot matrix font data representation, see Appendix B.

Table 6.5 bitmap fonts

This standard provides 7445 characters/graphic characters and supplementary provisions of GB 2312-1980 132 graphic characters 15 x 16 Bitmap fonts, which has 98 characters that dot grid limits were reduced provincial stroke treatment, see Appendix C.

This standard bitmap fonts are listed below.

twenty one

twenty two

Appendix A

(Normative)

Supplementary character description this standard is based on the development of GB 2312-1980. Depending on the need, before the revision of GB 2312-1980, in the present standard Registration character temporarily supplemented as follows.

10-01 to 10-94 supplement 94 half-word graphic characters, their order and GB 2312-1980 Table 1, a region 03 One correspondence, font width corresponding to the width of the glyph area 03 1/2.

Fu, the order of this standard 8th district 01-32 correspond to 32 characters, font width 8-shaped area corresponding to the width of the first half.

Appendix B

(Normative)

15 x 16 dot matrix font data Represents B.1 15 x 16 dot matrix font data this standard, the graphic character font data is represented by a dot. Each dot font data is 15 x 16 (dots x