

ICS 35.040
CCS L 71



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

GB/T 22321.1-2025

Replacing GB/T 22321.1-2018

**Information technology - Chinese coded character set - 48 dot
matrix font of Chinese ideogram - Part 1: Song ti**

信息技术 中文编码字符集 汉字48点阵字型 第1部分：宋体

Issued on: March 28, 2025

Implemented on: October 1, 2025

**Issued by: State Administration for Market Regulation;
Standardization Administration of the PRC**

Table of Contents

Preface	III
Introduction	IV
1 Scope	1
2 Normative references	1
3 Terms and Definitions	1
4 Font and order	1
5 Management of standard data	2
6 Dot matrix font representation method	2
6.1 Grid	2
6.2 Point	2
6.3 Dot Matrix Font	2
7 Dot Font	3
7.1 Word count	3
7.2 Font Data	3
7.3 Dot matrix font table	3
Appendix A (Normative) 48 Dot Matrix Font Data	398
A.1 Representation of 48-dot font data	398
A.2 Storage format of 48-dot font data	398
A.3 48-dot font data example	398
References	400

Foreword

This document is in accordance with the provisions of GB/T 1.1-2020 "Guidelines for standardization work Part 1: Structure and drafting rules for standardization documents" Drafting.

This document is Part 1 of GB/T 22321 Information Technology Chinese Coded Character Set Chinese Character 48 Dot Matrix Font. GB/T 22321 has been The following parts have been published.

- Part 1: Songti.

This document replaces GB/T 22321.1-2018 "Information Technology Chinese Coded Character Set Chinese Character 48 Dot Matrix Font Part 1: Song Compared with GB/T

22321.1-2018, in addition to structural adjustments and editorial changes, the main technical changes are as follows.

- a) 48-dot Song-style fonts with 9 compatible code points deleted in the double-byte coding area (see 7.3, 7.3 of the 2018 edition);
- b) Added 48-dot Song-style fonts of five Chinese characters in the four-byte code 0x82359632~0x82359636 (see 7.3, 7.3 of the 2018 edition);
- c) Added 7473 Chinese characters in 48-dot Song fonts in the four-byte code 0x99348138~0x9939F730 (see 7.3, 7.3 of the 2018 edition);
- d) Added 214 Kangxi radical 48-dot Song fonts to the four-character code 0x81398B32~0x8139A035 (see 7.3, 7.3 of the 2018 edition);
- e) The glyphs of some Chinese characters have been changed (see 7.3, 7.3 of the 2018 edition).

Please note that some of the contents of this document may involve patents. The issuing organization of this document does not assume the responsibility for identifying patents.

This document was proposed and coordinated by the National Information Technology Standardization Technical Committee (SAC/TC28).

This document was drafted by: China Electronics Technology Standardization Institute, Weifang Beida Jade Bird Huaguang Phototypesetting Co., Ltd., Rocket Force Equipment Research The Fourth Research Institute of the Institute.

The main drafters of this document are: Huang Shanshan, Cao Ying, Cui Xiaolin, Dai Hong, Lü Jianchun and Zhou Jiping.

The previous versions of this document and the documents it replaces are as follows.

- First published in 2008 as GB/T 22321.1-2008, first revised in 2018;
- This is the second revision.

Introduction

GB/T 22321 "Information Technology Chinese Coded Character Set Chinese Character 48 Dot Matrix Font" is based on GB 18030 Coded Character Set Double Byte The graphic symbols and Chinese graphic characters provided in the four-byte Chinese character part are based on the standard glyphs given in the "General Standard Chinese Character Table" Based on the current standard Chinese character font arrangement principles, a 48-dot Chinese character font for information system was designed.

GB/T 22321 aims to solve the problem of Chinese character information display in Chinese information processing systems and improve the use of Chinese character font products for information technology.

The accuracy and standardization of Chinese characters are to be improved to meet the development of Chinese information processing and the needs of international information exchange and the standardization of Chinese characters. It consists of four parts.

- Part 1: Song-style font. The purpose is to specify the 48-dot Song-style font for Chinese characters used in information systems.
- Part 2: Bold. The purpose is to specify the 48-dot bold font of Chinese characters for information systems.
- Part 3: Kaiti. The purpose is to specify the 48-dot Kaiti font for Chinese characters used in information systems.
- Part 4: Fangsong font. The purpose is to specify the 48-dot Fangsong font for Chinese characters used in information systems.

Information technology Chinese coded character set Chinese 48-dot font Part 1: Songti

1 Scope

This document specifies 88,115 Chinese characters (including radicals/components) and 894 graphic elements at implementation level 3 in GB 18030-2022.

48-dot Songti font for glyph characters.

This document is applicable to the design of Chinese character dot matrix fonts in various electronic information products and digital products, and is also applicable to other related equipment.

2 Normative references

GB 18030-2022

3 Terms and definitions

The following terms and definitions apply to this document.

3.1 Glyph

A recognizable abstract graphic symbol that is not tied to any particular design.

3.2 Font

A collection of glyph images with the same basic design. Note. For example, Songti.

3.3 dotmatrixfont

The shape of a graphic character is represented by a collection of points.

3.4 character order

The order in which graphic characters are arranged in a set according to certain rules.

4 Font and order

This document is based on the "General Standard Chinese Character Table" and is designed according to the principles of current standard Chinese character shape organization.

This document arranges the points in the order of double-byte symbol area, double-byte Chinese character area and four-byte Chinese character area as specified in GB 18030-2022. Formation font.