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# NATIONAL STANDARD OF THE PEOPLE'S REPUBLIC OF CHINA

# GB 29273-2012

## Information technology - Tibetan ideogram coded character set (basic set and extension set A). 16x32 dot matrix font - Bkav bstan lean

信息技术 藏文编码字符集(基本集及扩充集A) 16×32点阵字型 甘丹白体

**(English Translation)**

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## Foreword

All technical contents of this standard is mandatory.

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

This standard is proposed and managed by the National Information Technology Standardization Technical Committee (SAC/TC28).

Drafted by. China Electronics Standardization Institute, Ltd. Weifang Beida Jade Bird Huaguang typesetting, China Tibetan Studies Heart, Tibet Tibetan Language Work Committee Office.

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## Introduction

According to this standard GB 16959-1997 "Technical information exchange with Tibetan coded character set basic set" and GB/T 20542-Under the 2006 "Information technology - Tibetan coded character set - Extension A" and some Tibetan Sanskrit transliteration Tibetan character, Tibetan land to our country Standard font area, based on a predetermined design and information systems (see Appendix A) shaped in Tibetan 16 x 32 dot matrix ldan white body.

Authorize the relevant font data transfer using matters font standard data maintenance, updating and revision of the unified responsibility of focal point.



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Address. Dongcheng District Andingmen East Avenue (Beijing 1101 mailbox) Postal Code. 100007 Tel. 6,400,768,984,029,173 Fax. 64007681 E-mail. daihong@cesi.ac.cn Information technology - Tibetan coded character set (Basic sets and expansion sets A) 16 x 32 dot font ldan white body

## 1 Scope

This standard specifies a 16 x 32 dot matrix ldan white bodies and GB 16959-1997 GB/T 20542-2006 of graphic characters in Tibetan Font.

This standard is primarily applicable to the display device Tibetan information processing system, an output dot matrix device can also be used for other related equipment.

## 2 Normative references

The following documents for the application of this document is essential. For dated references, only applies to the version dated paper Pieces. For undated references, the latest edition (including any amendments) applies to this document.

GB 16959-1997 Technical information exchange with a basic set of coded character set Tibetan GB/T 20542-2006 Information technology - Tibetan coded character set - Extension A

## 3 Terms and Definitions

The following terms and definitions apply to this document.

Font glyph

A recognizable abstract graphic symbols, it does not depend on any particular design.

Font font

Glyph image set having the same basic design, such as. Ganden white body.

Bitmap font dotmatrixfont to rendezvous to phenotype graphic character (shape).

Word order characterorder in the graphic character set is arranged in order according to certain rules.

## 4 Standard data management

To strengthen the management of electronic information technology products Tibetan font standard data, to ensure the correctness of the implementation of this standard in data and Consistency to authorize the use of font data transfer issues, to maintain the standard font data, updating and revision, unified by a centralized unit be responsible for.



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### 5.1 Grid

Raster is formed by the vertical and horizontal lines intersecting equidistant from several pieces.

Specified in this standard is 16 x 32 dot matrix font, which is a cross-grid cells 16, 32 longitudinal grid. The center of each grid point in a given Heart position.

Only the grid points constituting each lattice positioning grid shown in Figure 1.

FIG matrix 1 16 x 32 grid of FIG.

### 5.2 Points

Point is the minimum unit of dot font, which is located within each square black areas.

### 5.3 Dot matrix typeface

Tibetan word bitmap fonts from several points located within the set of grid FIG. Tibetan "" The 16 x 32 dot matrix font as 2 shown in FIG.

FIG 2 16 x 32 dot matrix Tibetan "" font

## 6 Tibetan bitmap fonts

### 6.1

The number of characters this standard provides a 16 x 32 dot GB 16959-1997 and GB/T 20542-2006 predetermined character pattern 1729 Tibetan Array ldan shaped white body, including in GB 16959-1997 193 th and GB/T 20542-2006 in 1536.

### 6.2 Word order

16 x 32 dot-shaped body of the present ldan white standard 1729 provides graphic characters in accordance with Tibetan and GB 16959-1997 Character word sequences aligned GB/T 20542-2006 predetermined.

### 6.3 Tibetan font data

Tibetan 16 x 32 dot matrix font data is represented, Appendix B.

Tibetan bitmap font table 6.4 16 x 32 dot-shaped body of the present ldan white standard Tibetan 1729 provides graphic character shown in Table 1 and Table 2.

Table 1 Tibetan font table (basic set)

Table 2 Tibetan font table (extension set A)

TABLE 2 (cont.)



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TABLE 2 (cont.)

TABLE 2 (cont.)

TABLE 2 (cont.)

TABLE 2 (cont.)

Appendix A

(Informative)

Tibetan Ganden white body Tibetan Ganden specified in this standard () white body with reference to Dege woodcut, wood pond that version of "Kanjur" "Tengyur" and other versions Font creation, is one of many different styles of white body in a unique typeface font.

Appendix B

(Normative)

Tibetan 16 x 32 dot matrix font data B.1 Tibetan of 16 x 32 dot matrix font data representing this standard, Tibetan font data may be represented by a dot. Each dot font data is 16 x 32 (dots x transverse column Points), a total of 512 bits, 64 bytes.

B.2 Tibetan recording format 16 x 32 dot font data Tibetan 16 x 32 dot matrix font data of 64 bytes are arranged in the order of byte 0 to byte 63 ends, are hexadecimal He represents, 2 bytes per line, which is a recording format shown in Table B.1.

Table B.1 16 x 32 dot matrix font data recording format

Rows

Number of columns

0 1,234,567,891,011,121,314 15 Byte 1 Byte 0 0 2 bytes 3 bytes 3162 bytes 63 bytes B.3 Tibetan 16 x 32 dot matrix font data sample

Example Data 16 x 32 dot font Tibetan Table B.2.

Table B.2 exemplary font data dot Tibetan

0F55

F337 F432

0000

0000

0000

0000



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