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

GB/T 13133-2008

Replacing GB/T 13133-1991

**Information technology -- Telecommunication and information
exchange between systems -- DTE to DTE direct connections**

信息技术 系统间远程通信和信息交换 DTE到DTE直接连接

(English Translation)

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Foreword

This standard is identical with the international standard ISO/IEC 8481:1996 "Information technology - Telecommunications and information exchange between the DTE DTE directly connected "(in English).

This standard replaces GB/T 13133-1991 "DTE to provide timing data communication using X. DTE 24 to DTE interchange circuits Physical connection. " this standard compared with GB/T 13133-1991 main changes are as follows.

--- This standard increase in the content of Appendix A, the contents of GB/T 14398-1993 consistent.

Appendix A of this standard is the data appendix.

This standard by the National Information Technology Standardization Technical Committee and centralized.

This standard was drafted. China Electronics Standardization Institute.

Introduction

This standard specifies the signal conversion without any interconnection of data terminal equipment (DTE), so you do not have to connect to the DTE electrical data Path terminating equipment (DCE) up, DCE is part of the telecommunications infrastructure.

Direct connection to the desired DTE DTE can be completely in the user's buildings. These aims will be interconnected with the ITU-T and ISO/IEC standardization DTE/DCE interface elements linked in order to avoid the proliferation of the device.

Normative part of the standard for the use of CCITT Recommendation X. 24 interchange circuits and use of ITU recommendations V. 11 different electrical characteristics Step transfer and isochronous transfer (including circuits for synchronous transmission X) provides interconnection. Informative annex provides a means for the interconnection of

other cases South, although under limited conditions acceptable interconnection of, but these interconnections are not recommended for general use. These alternative party Type, including synchronization timing structure does not depend on the transmission with ITU Recommendation V. Two DTE 11 electrical characteristics provided in Circuit X.

Informative appendix does not cover direct connection to ISDN terminal equipment (type TE1) between, in this case, the transmission signal frame Complexity makes the general method is not recommended for any interconnection.

GB/T 13133-2008/ISO/IEC 8481:1996 Information technology - Telecommunications and information exchange DTE to DTE connected directly

1 Scope

This standard from the electrical, mechanical and functional characteristics to describe the data terminal equipment (DTE) interconnection of a connection, without intermediate Data circuit terminating equipment (DCE). This standard applies to such a number of DTE, they use the public data transmission online CCITT Recommendation X. Standardized interface circuit 24. This interconnection is limited to point connection.

Note: The method is extended to multi-point configuration under study, the use of electrical characteristics in accordance with GB/T 15127 "Information processing systems - Data communication twisted pair Line multi-point interconnection. " this standard applies to the use of ITU recommendations V. Balance the electrical characteristics of DTE 11, the data signal rates of up to 10Mbit/s.

Start-stop can be used to interconnect or synchronous transmission. For synchronous transmission, this standard applies to the use of circuit X (DTE transmission symbols the timing) and a circuit S (signal element timing) of the DTE (see Chapter 5).

Information Appendix interconnect with or DTE interface circuit with the electrical characteristics of the information provided, and the interface circuit according to V. 24, the electrical characteristics in accordance with V. 10 or V. 28.

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/T 9952-2008 Information technology - Data communication - 15 pin DTE/DCE interface connector and contact number assignments (ISO 4903. 1989, IDT) ITU-T Recommendation V. Electrical Characteristics 11 (1994) operates on the data signal rates of up to 10Mbit/s of

balanced double circuit CCITT Recommendation X. 24 (1989) on public data networks of data terminal equipment (DTE) and data circuit terminating equipment (DCE) between Conversion circuit Definition Table

3 Interconnect Configuration

For point to point connection, only consider a DTE to DTE interconnection configuration, the interface follows the CCITT recommendation X. 24 (1989), as shown in Figure 1.

Figure 1 DTE Interconnect Configuration

There are two dividing line between the two interconnected DTE, DTE connector each have one. Adapters and even link the two DTE any cable connector is not a part of any of the DTE.

The maximum length of cable to the middle of the balance depends on the electrical characteristics of the interchange circuits parameters and data signaling rate.

GB/T 13133-2008/ISO/IEC 8481:1996