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

GB/T 3454-2011

Replacing GB/T 3454-1982

**List of definitions for interchange circuits between data
terminal equipment (DTE) and data circuit-terminating
equipment (DCE)**

数据终端设备（DTE）和数据电路终接设备（DCE）之间的接口电路定义表
(English Translation)

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Foreword

This standard is based on GB/T 1.1-2009 drafting rules.

This standard replaces GB/T 3454-1982/ITU-TV.24. 1980 "Data Terminal Equipment (DTE) and data circuit-terminating equipment (DCE) interface circuit between the definition of the table. " this standard and GB/T 3454-1982/ITU-TV.24. 1980 compared to the main changes are as follows.

--- To Chapter 1, "scope" in the content made editorial changes.

--- In Chapter 3 of this standard, remove the circuit 110,123,124,129,130 \u200b\u200band other content, and part of the 100 series circuit Made editorial changes.

--- In Chapter 3 of this standard, delete the original standard of 3.2 and 3.4, and the original standard 3.3-based adjustment of the standard 4.4.

--- The contents of this standard in Chapter 4 made editorial changes and the addition of the contents of 4.5,4.6,4.7.

This standard uses the translation method is equivalent to using ITU-TV.24.2000 "Data

Terminal Equipment (DTE) and data circuit-terminating equipment (DCE) Between the interface circuit Definition Table "(in English).

Correspondence between the consistency of the standards of international documents and normative references of the following documents.

--- GB/T 3455 electrical characteristics for unbalanced double interface circuit (GB/T 3455-1982, idt ITU-TV.28. 1980);

--- GB/T 9950 Data communication - 37 pin and 9 pin DTE/DCE interface connector and pin assignment (GB/T 9950-1988, idt ISO 4902. 1980);

--- GB/T 11599 and synchronous V-series modem interface, data terminal equipment (DTE) Use on public data networks (GB/T 11599-2009, ITU-TX.21bis. 1988, IDT);

--- GB/T 11600 and asynchronous duplex V-series modem interface, data terminal equipment (DTE) in a public data networks Usage (GB/T 11600-2009, ITU-TX.20bis. 1988, IDT);

--- GB/T 15125 Information technology - Data communication - 25 - pole DTE/DCE interface connector and contact assignment No.

(GB/T 15125-1994, ISO 2110. 1989, IDT);

--- GB/T 17559 between Information technology - Telecommunications and information exchange with the 26 pin interface connector dimensions and then Contact number assignments (GB/T 17559-1998, ISO/IEC 11569:1993, IDT);

--- GB/T 17959 between Information technology - Telecommunications and information exchange with the 50 pin interface connector dimensions and then Contact number assignments (GB/T 17959-2000, ISO/IEC 13575:1995, IDT).

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

The standard by the China Communications Standards Association.

This standard was drafted. the Ministry of Industry and Information Technology and Telecommunications Research Institute, Shanghai Bell Co., Ltd.

1 Scope

This standard specifies the data terminal equipment (DTE) and data circuit terminating defined interface circuit equipment (DCE) between. This standard Apply between DTE and DCE interfaces and called circuit interconnection interface circuit. These circuits for transmitting binary data, control Signals and timing signals and the appropriate analog signal. This standard also applies to both sides of the separate intermediate equipment, and that separate intermediate equipment You may be inserted between these two types of

equipment (see Figure 1).

NOTE: If no intermediate devices, select A and B are the same. C is dedicated to select automatic call.

The general layout of a schematic diagram of the device 1 the scope of this standard interface circuit can be used, for example.

- a) synchronous and asynchronous data communication;
- b) two-wire and four-wire leased line service on point to point or multi-point data communications operations;
- c) the exchange of data traffic on the network service two or four lines;

Between d) DTE and DCE, use short interconnect cable where the cable short description about see Chapter 4.

Compliance with this standard DTE/DCE interface, can also be interconnected with the public data network. At this point the interface circuit in the implementation and operation to Additional information on demand in GB/T 11600/ITU-TX.20bis and GB/T 11599/ITU-TX.21bis in.

Any actual device, the interface circuit should be from the scope of the standard of appropriately be selected.

The actual specific DCE interface circuit is a circuit corresponding to those specified in the standard.

In the standard referenced standards specified DCE interchange circuits require only applies to DCE side of the interface. These circuits require Ensure the normal operation, and control or monitoring by the DTE (see 4.5).

In Chapter 4 defines the interaction between use and operational requirements of the interface circuit, and an interface circuit.

The electrical characteristics of interchange circuits See ITU-TV.10, ITU-TV.11, ITU-TV.12, GB/T 3455/ITU-TV.28, ITU-TV.31 and ITU-TV.31bis.

Mechanical characteristics of the interface Refer to GB/T 15125/ISO 2110 (25-pole), GB/T 17559/ISO/IEC 11569 (26-pole),