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

GB/T 15127-2008

Replacing GB/T 15127-1994

**Information technology -- Telecommunications and information
exchange between systems -- Twisted pair multipoint
interconnections**

信息技术 系统间远程通信和信息交换 双扭线多点互连

(English Translation)

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Foreword

This standard is identical with the international standard ISO/IEC 8482:1993 Flat "Information technology - Telecommunications and information exchange between the twisted pair Multi-point interconnection "(in English).

This standard replaces GB/T 15127-1994 "Information processing systems - Data communication twisted pair multipoint interconnections." Compared with the standard GB/T

15127-1994 The main changes are as follows.

- This standard adds a. c. load;
- This standard adds to Appendix B on a. c. Load measuring guide.

The change compared with the standard GB/T 15127-1994 editorial as follows.

- The terms and definitions listed in Chapter 3;
- The main changes to the scope of Chapter 1, the common trunk cable length from 500 meters to 1200 meters, the applicable data signal Rate by the 1Mbit/s to 12.5Mbit/s;
- Chapter 5 interconnect configuration original 5m to 1m.

This standard Annex A, Annex B is informative appendix.

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

This standard was drafted. Ministry of Information Industry Institute of Electronics Industry Standardization.

1 Scope

1.1

standard for the following areas require physical media properties.

- a) for two-wire or four-wire network topology twisted pair multipoint interconnections, which provide half or full duplex data transmission capacity;
- b) interconnection endpoint system binary signals and bidirectional signal transmission;
- c) endpoint system and can be up to 1200m cable branch electrical and mechanical design of public trunk cable;
- d) within the scope of the endpoint system and generator components measuring IC type received;
- e) the applicable data signaling rates up to 12.5Mbit/s.

Electrical components and characteristics defined measuring 1.2 and GB/T 7619 gives Twisted Pair point characteristics very consistent.

1.3

This standard does not describe the complete physical interface, nor describe the functional interface features, such as.

- a) the number of data interchange circuits and control circuits;
- b) endpoint system branch cable connector type, size and pin assignment;

- c) data and control signal coding;
- d) the temporal relationship between the signals interchange circuit;
- e) a synchronous or asynchronous transfer mode;
- f) the quality of the signal transmission and reception.

1.4

This standard does not specify special environmental conditions, such as current insulation, electromagnetic interference (EMI), radio frequency interference (RFI) and the safety of personnel. This Some might constitute a future issue of the Supplement.

1.5

standard specification is primarily a member of all possible configurations satisfaction interoperability provisions inadequate to ensure that its configuration is expected to be satisfied Interoperability is to achieve accountable.

1.6

This standard may be with any appropriate set of features and additional environmental characteristics combine to meet the LAN or WAN in the field of real numbers Data transmission requirements.

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/Electrical characteristics for balanced double-type interface circuits T 7619 in the field of data communications is usually used in conjunction with an integrated circuit device (GB/T 7619-1987, eqvCCITT Recommendation V.11. 1984)

3 Terms and Definitions

The following terms and definitions apply to this standard.

Use two wires and differential mode voltage of the transmission signal interchange circuits.

Balance interchange circuits, the applied common mode voltage V_p cm transverse voltage V_p tr formed (with the same differential mode voltage) ratio.

GB/T 15127-2008/ISO/IEC 8482:1993