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

GB/T 12628-2008

Replacing GB/T 12628-1990

General specification for hard disk drive

硬磁盘驱动器通用规范

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Table of Contents

1 Scope	1
2 Normative references	1
3 Terms and definitions Requirement 3	4
5 Test methods 7	11
13 Appendix B (normative) failure criterion	14

Foreword

This standard replaces GB/T 12628-1990 "hard disk drive General technical requirements."
This standard and GB/T 12628-1990 main difference is as follows:

- GB/T 12628-1990 covers only 3.5in hard disk drive, increase this standard 2.5in hard disk drive;
- Increased hard disk sheet, data transfer rate, the key terms of time to prepare, interface, start and stop testing;
- Delete the original standard disk drive - temperature (s), the head disk assembly, recording mode, the recording density, magnetic flux reversal density track Density, cylinder, formatted capacity, spindle motor start time, stop time of the spindle motor, the maximum seek time, the average rotational latency Term time, track defects, bad codes;
- Increasing the schematic structure, shape and installation diagram, increased the average seek time, data transfer rate, preparation time and other major properties Performance metrics;
- Updated the GB/T 12628-1990 Safety requirements and electromagnetic compatibility requirements and test methods;
- Increased 2.5in and environmental adaptability requirements and test methods 3.5in hard drive, update anti-vibration and shock resistance Claim;
- Increasing the start-stop test requirements and test methods;
- Updated requirements and test methods to adapt to the power supply capacity;
- Updated the GB/T 12628-1990 inspection rules in the settlement test content;
- Updated the GB/T 12628-1990 Package Marking the contents;
- Remove the GB/T 12628-1990 Appendix C. The Standard Appendix A and Appendix B is a normative appendix. This standard by the National Information Technology

Standardization Technical Committee (SAC/TC28) and focal points. This standard was drafted. Shenzhen ExcelStor Technology Limited, China Electronics Standardization Institute, Huazhong University of Science and Technology, China Great Wall count Computer Shenzhen Co., Ltd. The main drafters of this standard. Hsu Kuei, Zheng Hongren, Tang Dexin, Dan Feng, Liu Jingning, Chu Cheng Wu, Shu Qian, Wang Hua, Yeshao Wen, Tong Guangsheng. This standard by standard drafting unit responsible for the interpretation. This standard replaces the standards previously issued as follows:

--- GB/T 12628-1990. General specification for hard disk drives

1 Scope

GB/T 12628-2008 is the Chinese national standard on general specification for hard disk drive, in the field of information technology. The /T suffix marks it as a recommended standard: it is not compulsory by itself, but it becomes binding as soon as a contract, a tender or a customer specification calls it up - which in practice is how most foreign buyers meet it. It was issued on 18 July 2008 by the General Administration of Quality Supervision, Inspection and Quarantine of the People's Republic of China; Standardization Administration of China, and has been in force since 1 December 2008. Classification: ICS 35.220.20, CCS L63. This page is published from the official record of the standard held by the Chinese standards administration: the identification, the dates, the classification and the issuing body are taken from there. The clause text, the tables and the numeric limits are in the document itself, which is delivered complete in English translation.

This standard specifies the hard disk drive (hereinafter referred to as the product) technical requirements, test methods, inspection rules, marking, packaging, transportation, storage Memory and so on. This standard applies to 2.5in and 3.5in hard disk drive, is the basis for development of product standards, other specifications may reference use.

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 191-2008 Packaging - Pictorial signs (ISO 780.1997, MOD)

GB/T 2421 Environmental testing for electric and electronic products - Part 1. General (GB/T 2421-1999, eqv IEC 60068-1.1998)

GB/T 2422 electric and electronic products environmental testing terminology (GB/T 2422-1995, eqv IEC 60068-5-2.1990)

GB/T 2423.1-2001 Environmental testing for electric and electronic products Part 2. Test methods Test A. Cold (idt IEC 60068-2-1.1990)

GB/T 2423.2-2001 Environmental testing for electric and electronic products Part 2. Test methods Test B. high temperature (idt IEC 60068-2-2. 1974)

GB/T 2423.3-2006 Environmental testing for electric and electronic products Part 2. Test methods - Test Cab. Damp heat test (

IEC 60068-2-78.2001, IDT)

GB/T 2423.5-1995 Environmental testing for electric and electronic products Part 2. Test methods Test Ea and guidance. Shock (idt IEC 60068-2-27. 1987)

GB/T 2423.10-2008 Environmental testing for electric and electronic products Part 2. Test methods Test Fc. Vibration (sinusoidal) (IEC 60068-2-6.1995, IDT)

GB 4943-2001 Safety of information technology equipment (eqv IEC 60950.1999)

GB/T 5080.7-1986 Equipment reliability testing efficiency constant failure rate assumption under the MTBF of the verification test Inspection program (idt IEC 60505-7. 1978)

GB/T 5271.14-2008 Information technology - Vocabulary - Part 14. Reliability, maintainability and availability and (ISO / IEC 2382-14.1997, IDT)

GB/T 6882-1986 Acoustics sound power levels of noise sources measurement anechoic and semi-anechoic chamber Precision methods

3 Terms and Definitions

The following terms and definitions apply to this standard.

3.1 In the hard disk as the primary recording medium sheet storage devices read and write data.

Note. commonly known as the hard disk.