

INTERNATIONAL
STANDARD

ISO/IEC
7487-1

Second edition
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**Information technology — Data
interchange on 130 mm (5,25 in) flexible
disk cartridges using modified frequency
modulation recording at 7 958 ftprad,
1,9 tpmm (48 tpi), on both sides — ISO
type 202 —**

Part 1:
Dimensional, physical and magnetic
characteristics

*Technologies de l'information — Échange de données sur cartouches à
disquettes de 130 mm (5,25 in) utilisant un enregistrement à modulation
de fréquence modifiée (MFM) à 7 958 ftprad, 1,9 tpmm (48 tpi) sur les
deux faces — Type ISO 202 —*

Partie 1: Caractéristiques dimensionnelles, physiques et magnétiques



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Foreword

ISO (the International Organization for Standardization) and IEC (the International Electrotechnical Commission) form the specialized system for worldwide standardization. National bodies that are members of ISO or IEC participate in the development of International Standards through technical committees established by the respective organization to deal with particular fields of technical activity. ISO and IEC technical committees collaborate in fields of mutual interest. Other international organizations, governmental and non-governmental, in liaison with ISO and IEC, also take part in the work.

In the field of information technology, ISO and IEC have established a joint technical committee, ISO/IEC JTC 1. Draft International Standards adopted by the joint technical committee are circulated to national bodies for voting. Publication as an International Standard requires approval by at least 75 % of the national bodies casting a vote.

International Standard ISO/IEC 7487-1 was prepared by Joint Technical Committee ISO/IEC JTC 1, *Information technology*, Subcommittee SC 11, *Flexible magnetic media for digital data interchange*.

This second edition cancels and replaces the first edition (ISO 7487-1:1985), of which it constitutes a technical revision.

ISO/IEC 7487 consists of the following parts, under the general title *Information technology — Data interchange on 130 mm (5,25 in) flexible disk cartridges using modified frequency modulation recording at 7 958 ftprad, 1,9 tpm (48 tpi), on both sides — ISO type 202*:

- Part 1: *Dimensional, physical and magnetic characteristics*
- Part 2: *Track format A*
- Part 3: *Track format B*

Annexes A, B and C form an integral part of this part of ISO/IEC 7487. Annexes D and E are for information only.

Introduction

ISO/IEC 7487 specifies the characteristics of 130 mm (5,25 in) flexible disk cartridges recorded at 7 958 ftprad, 1,9 tpmm (48 tpi), on both sides using modified frequency modulation recording.

ISO 7487-2 and ISO 7487-3 each specify the quality of recorded signals, the track layout, and a track format to be used on such a flexible disk cartridge, which is intended for data interchange between data processing systems.

Together with the labelling scheme specified in ISO 7665, ISO/IEC 7487-1 and ISO 7487-2 provide for a full data interchange between data processing systems.

Together with the labelling scheme specified in ISO 9293, ISO/IEC 7487-1 and ISO 7487-3 provide for another full data interchange between data processing systems.

In accordance with ISO/IEC 9983, flexible disk cartridges conforming to this part of ISO/IEC 7487 should be designated as "ISO type 202".

Information technology — Data interchange on 130 mm (5,25 in) flexible disk cartridges using modified frequency modulation recording at 7 958 ftprad, 1,9 tpmm (48 tpi), on both sides — ISO type 202 —

Part 1: Dimensional, physical and magnetic characteristics

1 Scope

This part of ISO/IEC 7487 specifies the dimensional, physical and magnetic characteristics of the cartridge so as to provide physical interchangeability between data processing systems.

2 Conformance

A flexible disk cartridge shall be in conformance with ISO 7487 when it meets all the requirements of ISO/IEC 7487-1 and those of either ISO 7487-2 or ISO 7487-3.

NOTE 1 Numeric values in the SI and/or Imperial measurement system in this International Standard may have been rounded off and therefore are consistent with, but not exactly equal to, each other. Either system may be used, but the two should be neither intermixed nor reconverted. The original design was made using Imperial units and further developments were made using SI units.

3 Normative references

The following standards contain provisions which, through reference in this text, constitute provisions of this part of ISO/IEC 7487. At the time of publication, the editions indicated were valid. All standards are subject to revision, and parties to agreements based on this part of ISO/IEC 7487 are encouraged to investigate the possibility of applying the most recent

editions of the standards indicated below. Members of IEC and ISO maintain registers of currently valid International Standards.

ISO 7487-2:1985, *Information processing — Data interchange on 130 mm (5.25 in) flexible disk cartridges using modified frequency modulation recording at 7 958 ftprad, 1,9 tpmm (48 tpi), on both sides — Part 2: Track format A.*

ISO 7487-3:1986, *Information processing — Data interchange on 130 mm (5.25 in) flexible disk cartridges using modified frequency modulation recording at 7 958 ftprad, 1,9 tpmm (48 tpi), on both sides — Part 3: Track format B.*

ISO 7665:1983, *Information processing — File structure and labelling of flexible disk cartridges for information interchange.*

ISO 9293:1987, *Information processing — Volume and file structure of flexible disk cartridges for information interchange.*