



SLOVENSKI STANDARD

SIST EN 61883-6:2003

01-december-2003

Consumer audio/video equipment - Digital interface - Part 6: Audio and music data transmission protocol (IEC 61883-6:2002)

Consumer audio/video equipment - Digital interface -- Part 6: Audio and music data transmission protocol

Audio/Video-Geräte der Unterhaltungselektronik - Digitale Schnittstelle -- Teil 6: Übertragungsprotokoll für Ton- und Musikdaten

Matériel audio/vidéo grand public - Interface numérique -- Partie 6: Protocole de transmission de données audio et musicales

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Ta slovenski standard je istoveten z: EN 61883-6:2002

ICS:

33.160.01	Avdio, video in avdiovizualni sistemi na splošno	Audio, video and audiovisual systems in general
35.200	Vmesniška in povezovalna oprema	Interface and interconnection equipment

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en

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EUROPEAN STANDARD

EN 61883-6

NORME EUROPÉENNE

EUROPÄISCHE NORM

December 2002

ICS 33.160.01; 35.200

English version

**Consumer audio/video equipment -
Digital interface
Part 6: Audio and music data transmission protocol
(IEC 61883-6:2002)**

Matériel audio/vidéo grand public -
Interface numérique
Partie 6: Protocole de transmission
de données audio et musicales
(CEI 61883-6:2002)

Audio/Video-Geräte
der Unterhaltungselektronik -
Digitale Schnittstelle
Teil 6: Übertragungsprotokoll
für Ton- und Musikdaten
(IEC 61883-6:2002)

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This European Standard was approved by CENELEC on 2002-11-01. CENELEC members are bound to comply with the CEN/CENELEC Internal Regulations which stipulate the conditions for giving this European Standard the status of a national standard without any alteration.

Up-to-date lists and bibliographical references concerning such national standards may be obtained on application to the Central Secretariat or to any CENELEC member.

This European Standard exists in three official versions (English, French, German). A version in any other language made by translation under the responsibility of a CENELEC member into its own language and notified to the Central Secretariat has the same status as the official versions.

CENELEC members are the national electrotechnical committees of Austria, Belgium, Czech Republic, Denmark, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Luxembourg, Malta, Netherlands, Norway, Portugal, Slovakia, Spain, Sweden, Switzerland and United Kingdom.

CENELEC

European Committee for Electrotechnical Standardization
Comité Européen de Normalisation Electrotechnique
Europäisches Komitee für Elektrotechnische Normung

Central Secretariat: rue de Stassart 35, B - 1050 Brussels

Foreword

The text of document 100/526/FDIS, future edition 1 of IEC 61883-6, prepared by IEC TC 100, Audio, video and multimedia systems and equipment, was submitted to the IEC-CENELEC parallel vote and was approved by CENELEC as EN 61883-6 on 2002-11-01.

The following dates were fixed:

- latest date by which the EN has to be implemented at national level by publication of an identical national standard or by endorsement (dop) 2003-08-01
- latest date by which the national standards conflicting with the EN have to be withdrawn (dow) 2005-11-01

Annexes designated "normative" are part of the body of the standard.

Annexes designated "informative" are given for information only.

In this standard, annex ZA is normative and annexes A, B and C are informative.

Annex ZA has been added by CENELEC.

Endorsement notice

The text of the International Standard IEC 61883-6:2002 was approved by CENELEC as a European Standard without any modification.

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Annex ZA (normative)

Normative references to international publications with their corresponding European publications

This European Standard incorporates by dated or undated reference, provisions from other publications. These normative references are cited at the appropriate places in the text and the publications are listed hereafter. For dated references, subsequent amendments to or revisions of any of these publications apply to this European Standard only when incorporated in it by amendment or revision. For undated references the latest edition of the publication referred to applies (including amendments).

NOTE When an international publication has been modified by common modifications, indicated by (mod), the relevant EN/HD applies.

<u>Publication</u>	<u>Year</u>	<u>Title</u>	<u>EN/HD</u>	<u>Year</u>
IEC 60958-1	1999	Digital audio interface Part 1: General	EN 60958-1	2000
IEC 60958-3	1999	Part 3: Consumer applications	EN 60958-3	2000
IEC 60958-4	1999	Part 4: Professional applications	EN 60958-4	2000
IEC 61883-1	- ¹⁾	Consumer audio/video equipment - Digital interface Part 1: General	EN 61883-1	1998 ²⁾
IEEE 754	1985	Standard for Binary Floating-Point Arithmetic	-	-
IEEE 1394	1995	Standard for a High Performance Serial Bus - Firewire	-	-
IEEE 1394A	2000	Standard for a High Performance Serial Bus - Amendment 1	-	-

¹⁾ Undated reference.

²⁾ Valid edition at date of issue.

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INTERNATIONAL STANDARD

IEC 61883-6

First edition
2002-10

Consumer audio/video equipment – Digital interface –

Part 6: Audio and music data transmission protocol

STANDARD PREVIEW

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*Matériel audio/vidéo grand public –
Interface numérique –*

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*Partie 6:
Protocole de transmission de données
audio et musicales*

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Commission Electrotechnique Internationale
International Electrotechnical Commission
Международная Электротехническая Комиссия

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INTERNATIONAL ELECTROTECHNICAL COMMISSION

CONSUMER AUDIO/VIDEO EQUIPMENT –
DIGITAL INTERFACE –

Part 6: Audio and music data transmission protocol

FOREWORD

- 1) The IEC (International Electrotechnical Commission) is a worldwide organization for standardization comprising all national electrotechnical committees (IEC National Committees). The object of the IEC is to promote international co-operation on all questions concerning standardization in the electrical and electronic fields. To this end and in addition to other activities, the IEC publishes International Standards. Their preparation is entrusted to technical committees; any IEC National Committee interested in the subject dealt with may participate in this preparatory work. International, governmental and non-governmental organizations liaising with the IEC also participate in this preparation. The IEC collaborates closely with the International Organization for Standardization (ISO) in accordance with conditions determined by agreement between the two organizations.
- 2) The formal decisions or agreements of the IEC on technical matters express, as nearly as possible, an international consensus of opinion on the relevant subjects since each technical committee has representation from all interested National Committees.
- 3) The documents produced have the form of recommendations for international use and are published in the form of standards, technical specifications, technical reports or guides and they are accepted by the National Committees in that sense.
- 4) In order to promote international unification, IEC National Committees undertake to apply IEC International Standards transparently to the maximum extent possible in their national and regional standards. Any divergence between the IEC Standard and the corresponding national or regional standard shall be clearly indicated in the latter.
- 5) The IEC provides no marking procedure to indicate its approval and cannot be rendered responsible for any equipment declared to be in conformity with one of its standards.
- 6) Attention is drawn to the possibility that some of the elements of this International Standard may be the subject of patent rights. The IEC shall not be held responsible for identifying any or all such patent rights.

International Standard 61883-6 has been prepared by Technical Area 4: Digital system interfaces, of IEC technical committee 100: Audio, video and multimedia systems and equipment.

The text of this standard is based on the following documents:

FDIS	Report on voting
100/526/FDIS	100/569/RVD

Full information on the voting for the approval of this standard can be found in the report on voting indicated in the above table.

This publication has been drafted in accordance with the ISO/IEC Directives, Part 2.

This publication replaces IEC/PAS 61883-6:1998

The committee has decided that the contents of this publication will remain unchanged until 31 October 2005. At this date, the publication will be

- reconfirmed;
- withdrawn;
- replaced by a revised edition, or
- amended.

IEC 61883 consists of the following parts, under the general title *Consumer audio/video equipment – Digital interface*

- Part 1: General
- Part 2: SD-DVCR data transmission
- Part 3: HD-DVCR data transmission
- Part 4: MPEG2-TS data transmission
- Part 5: SDL-DVCR data transmission
- Part 6: Audio and music data transmission protocol
- Part 7: Transmission of Rec. ITU-R BO.1294 System B Transport 1.0

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CONSUMER AUDIO/VIDEO EQUIPMENT – DIGITAL INTERFACE –

Part 6: Audio and music data transmission protocol

1 Scope

This part of IEC 61883 describes a protocol for the transmission of audio and music data employing IEEE 1394, and specifies essential requirements for the application of the protocol.

This protocol can be applied to all modules or devices which have any kind of audio and/or music data processing, generation and conversion function blocks. This standard deals only with the transmission of audio and music data; the control, status and machine readable description of these modules or devices should be defined outside of this document according to each application area.

2 Normative references

The following referenced documents are indispensable for the application of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

- IEC 60958-1:1999, *Digital audio interface – Part 1: General*
- IEC 60958-3:1999, *Digital audio interface – Part 3: Consumer applications*
- IEC 60958-4:1999, *Digital audio interface – Part 4: Professional applications*
- IEC 61883-1, *Consumer audio/video equipment – Digital interface – Part 1: General*
- IEEE Std 754:1985, *Standard for Binary Floating-Point Arithmetic*
- IEEE Std 1394:1995, *Standard for a High Performance Serial Bus – Firewire*
- IEEE Std 1394A:2000, *Standard for a High Performance Serial Bus – Amendment 1*

3 Terms and definitions

For the purpose of this part of IEC 61883, the terms and definitions given in IEC 61883-1 apply, together with the following.

3.1.1

32-bit floating-point data

data type which is defined in IEEE 754:1985, Standard for Binary Floating-Point Arithmetic.

3.1.2

A/M Protocol

protocol for the transmission of audio and music data over IEEE 1394

3.1.3

MIDI

Musical Instrument Digital Interface

NOTE The Complete MIDI 1.0 Detailed Specification, Version 96.1, March 1996a, is a specification for the interconnection of digital music processing devices (e.g. keyboards, signal processors) and computers.