



**SLOVENSKI STANDARD**  
**SIST EN 61883-1:2009**

**01-oktober-2009**

**BUXca Yý U**  
**SIST EN 61883-1:2003**

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**Porabniška avdio/video oprema - Digitalni vmesnik - 1. del: Splošno (IEC 61883-1:2008)**

Consumer audio/video equipment - Digital interface - Part 1: General (IEC 61883-1:2008)

Audio/Video-Geräte der Unterhaltungselektronik - Digitale Schnittstelle - Teil 1: Allgemeines (IEC 61883-1:2008)

Matériel audio/vidéo grand public - Interface numérique - Partie 1: Généralités (CEI 61883-1:2008)

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**Ta slovenski standard je istoveten z: EN 61883-1:2009**

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**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  
NORME EUROPÉENNE  
EUROPÄISCHE NORM

**EN 61883-1**

August 2009

ICS 33.160.01; 35.200

Supersedes EN 61883-1:2003

English version

**Consumer audio/video equipment -  
Digital interface -  
Part 1: General  
(IEC 61883-1:2008)**

Matériel audio/vidéo grand public -  
Interface numérique -  
Partie 1: Généralités  
(CEI 61883-1:2008)

Audio/Video-Geräte der  
Unterhaltungselektronik -  
Digitale Schnittstelle -  
Teil 1: Allgemeines  
(IEC 61883-1:2008)

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This European Standard was approved by CENELEC on 2009-07-01. 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, Bulgaria, Cyprus, the Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, the Netherlands, Norway, Poland, Portugal, Romania, Slovakia, Slovenia, Spain, Sweden, Switzerland and the United Kingdom.

**CENELEC**

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

**Central Secretariat: Avenue Marnix 17, B - 1000 Brussels**

## Foreword

The text of document 100/1236/CDV, future edition 3 of IEC 61883-1, prepared by technical area 4, Digital system interfaces and protocols, of 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 61883-1 on 2009-07-01.

This European Standard supersedes EN 61883-1:2003.

The significant technical changes with respect to EN 61883-1:2003 are as follows:

- allocation of a new FMT code for the 1394 Trade Association specification '601 over 1394';
- clarification of the meaning of FMT code;
- harmonization of EN 61883-1 with IEEE 1394.1 for speeds over S400.

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) 2010-04-01
- latest date by which the national standards conflicting with the EN have to be withdrawn (dow) 2012-07-01

Annex ZA has been added by CENELEC.

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### Endorsement notice

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The text of the International Standard IEC 61883-1:2008 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

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.

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>
IEEE 212	2001	Standard for a Control and Status Registers (CSR) - Architecture for microcomputer buses	-	-
IEEE 1394	1995	Standard for a High Performance Serial Bus	-	-
IEEE 1394a	2000	Standard for a High Performance Serial Bus - Amendment 1	-	-

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IEC 61883-1

Edition 3.0 2008-02

# INTERNATIONAL STANDARD

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Consumer audio/video equipment – Digital interface –  
Part 1: General

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INTERNATIONAL  
ELECTROTECHNICAL  
COMMISSION

PRICE CODE



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## INTERNATIONAL ELECTROTECHNICAL COMMISSION

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**CONSUMER AUDIO/VIDEO EQUIPMENT –  
DIGITAL INTERFACE –**
**Part 1: General****FOREWORD**

- 1) The International Electrotechnical Commission (IEC) is a worldwide organization for standardization comprising all national electrotechnical committees (IEC National Committees). The object of 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, IEC publishes International Standards, Technical Specifications, Technical Reports, Publicly Available Specifications (PAS) and Guides (hereafter referred to as "IEC Publication(s)"). 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. IEC collaborates closely with the International Organization for Standardization (ISO) in accordance with conditions determined by agreement between the two organizations.
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International Standard IEC 61883-1 has been prepared by technical area 4, Digital system interfaces and protocols, of IEC technical committee 100: Audio, video and multimedia systems and equipment.

This third edition of IEC 61883-1 cancels and replaces the second edition, published in 2003, of which it constitutes a technical revision.

The significant technical changes with respect to the second edition are as follows:

- allocation of a new FMT code for the 1394 Trade Association specification '601 over 1394';
- Clarification of the meaning of FMT code;
- harmonization of IEC 61883-1 with IEEE 1394.1 for speeds over S400.

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

CDV	Report on voting
100/1236/CDV	100/1336/RVC

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.

A list of all parts of the IEC 61883 series, under the general title *Consumer audio/video equipment – Digital interface*, can be found on the IEC website.

The committee has decided that the contents of this publication will remain unchanged until the maintenance result date indicated on the IEC web site under "<http://webstore.iec.ch>" in the data related to the specific publication. At this date, the publication will be

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

A bilingual version of this publication may be issued at a later date.

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# CONSUMER AUDIO/VIDEO EQUIPMENT – DIGITAL INTERFACE –

## Part 1: General

### 1 Scope and object

This part of IEC 61883 specifies a digital interface for consumer electronic audio/video equipment using IEEE 1394. It describes the general packet format, data flow management and connection management for audio-visual data, and also the general transmission rules for control commands.

The object of this standard is to define a transmission protocol for audio-visual data and control commands which provides for the interconnection of digital audio and video equipment, using IEEE 1394.

### 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.

IEEE 212:2001, *Standard for a Control and Status Registers (CSR) – Architecture for microcomputer buses*

[SIST EN 61883-1:2009](https://standards.iteh.ai/catalog/standards/sist/abebfa86-25a1-4b78-a673-)

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IEEE 1394:1995, *Standard for a High Performance Serial Bus*

IEEE 1394a:2000, *Standard for a High Performance Serial Bus – Amendment 1*

NOTE Throughout this document, the term “IEEE 1394” indicates a reference to the standard that is the result of the editorial combination of IEEE 1394:1995 and IEEE 1394a:2000. Devices conforming solely to IEEE 1394:1995 may conform to IEC 61883. Devices conforming to IEC 61883 should conform to IEEE 1394a:2000.

### 3 Abbreviations

For the purpose of this document, the following abbreviations apply.

AV/C	Audio Video Control
CHF	CIP Header Field
CIP	Common Isochronous Packet
CMP	Connection Management Procedures
CSR	Command and Status Register
CTS	Command/Transaction Set
CRC	Cyclic Redundancy Check Code
DVCR	Digital Video Cassette Recorder
EOH	End of CIP Header
FCP	Function Control Protocol
iPCR	Input Plug Control Register
iMPR	Input Master Plug Register
MPEG	Motion Picture Experts Group
oPCR	Output Plug Control Register