

Digital audio interface -- Part 1: General

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NATIONAL FOREWORD

<p>Käesolev Eesti standard EVS-EN 60958-1:2008 sisaldab Euroopa standardi EN 60958-1:2008 ingliskeelset teksti.</p> <p>Standard on kinnitatud Eesti Standardikeskuse 24.11.2008 käskkirjaga ja jõustub sellekohase teate avaldamisel EVS Teatajas.</p> <p>Euroopa standardimisorganisatsioonide poolt rahvuslikele liikmetele Euroopa standardi teksti kättesaadavaks tegemise kuupäev on 15.10.2008.</p> <p>Standard on kättesaadav Eesti standardiorganisatsioonist.</p>	<p>This Estonian standard EVS-EN 60958-1:2008 consists of the English text of the European standard EN 60958-1:2008.</p> <p>This standard is ratified with the order of Estonian Centre for Standardisation dated 24.11.2008 and is endorsed with the notification published in the official bulletin of the Estonian national standardisation organisation.</p> <p>Date of Availability of the European standard text 15.10.2008.</p> <p>The standard is available from Estonian standardisation organisation.</p>
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English version

**Digital audio interface -
Part 1: General
(IEC 60958-1:2008)**

Interface audionumérique -
Partie 1: Généralités
(CEI 60958-1:2008)

Digitalton-Schnittstelle -
Teil 1: Allgemeines
(IEC 60958-1:2008)

This European Standard was approved by CENELEC on 2008-10-01. 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.

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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 100/1252/CDV, future edition 3 of IEC 60958-1, 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 60958-1 on 2008-10-01.

This European Standard supersedes EN 60958-1:2004.

It includes the following significant changes with respect to EN 60958-1:2004:

Electrical and optical requirements are removed from EN 60958-3; they are specified in EN 60958-1.

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) | 2009-07-01 |
| – latest date by which the national standards conflicting with the EN have to be withdrawn | (dow) | 2011-10-01 |

Annex ZA has been added by CENELEC.

Endorsement notice

The text of the International Standard IEC 60958-1:2008 was approved by CENELEC as a European Standard without any modification.

In the official version, for Bibliography, the following notes have to be added for the standards indicated:

IEC 60793-2	NOTE	Harmonized as EN 60793-2:2008 (not modified).
IEC 60794-2	NOTE	Harmonized as EN 60794-2:2003 (not modified).
IEC 60874-1	NOTE	Harmonized as EN 60874-1:2007 (not modified).
IEC 60958	NOTE	Harmonized in EN 60958 series (not modified).
IEC 61883-6	NOTE	Harmonized as EN 61883-6:2005 (not modified).
IEC 61937-1	NOTE	Harmonized as EN 61937-1:2007 (not modified).
IEC 61937-2	NOTE	Harmonized as EN 61937-2:2007 (not modified).
IEC 61937-3	NOTE	Harmonized as EN 61937-3:2003 (not modified).
IEC 61937-4	NOTE	Harmonized as EN 61937-4:2003 (not modified).
IEC 61937-5	NOTE	Harmonized as EN 61937-5:2006 (not modified).
IEC 61937-6	NOTE	Harmonized as EN 61937-6:2006 (not modified).
IEC 61937-7	NOTE	Harmonized as EN 61937-7:2005 (not modified).
IEC 61937-8	NOTE	Harmonized as EN 61937-8:2007 (not modified).
IEC 61937-9	NOTE	Harmonized as EN 61937-9:2007 (not modified).
IEC 62105	NOTE	Harmonized as EN 62105:2002 (not modified).

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>
IEC 60268-11	- ¹⁾	Sound system equipment - Part 11: Application of connectors for the interconnection of sound system components	HD 483.11 S3	1993 ²⁾
IEC 60874-17	- ¹⁾	Connectors for optical fibres and cables - Part 17: Sectional specification for fibre optic connector - Type F-05 (friction lock)	EN 60874-17	1997 ²⁾
IEC 60958-3	- ¹⁾	Digital audio interface - Part 3: Consumer applications	EN 60958-3	2006 ²⁾
IEC 60958-4	- ¹⁾	Digital audio interface - Part 4: Professional applications	EN 60958-4	2003 ²⁾

¹⁾ Undated reference.

²⁾ Valid edition at date of issue.

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DIGITAL AUDIO INTERFACE –

Part 1: General

1 Scope

This part of IEC 60958 describes a serial, uni-directional, self-clocking interface for the interconnection of digital audio equipment for consumer and professional applications.

It provides the basic structure of the interface. Separate documents define items specific to particular applications.

The interface is primarily intended to carry monophonic or stereophonic programmes, encoded using linear PCM and with a resolution of up to 24 bits per sample.

When used for other purposes, the interface is able to carry audio data coded other than as linear PCM coded audio samples. Provision is also made to allow the interface to carry data related to computer software or signals coded using non-linear PCM. The format specification for these applications is not part of this standard.

The interface is intended for operation at audio sampling frequencies of 32kHz and above. Auxiliary information is transmitted along with the programme.

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 60268-11, *Sound system equipment – Part 11: Application of connectors for the interconnection of sound system components*

IEC 60874-17, *Connectors for optical fibres and cables – Part 17: Sectional specification for fibre optic connector – Type F-05 (friction lock)*

IEC 60958-3, *Digital audio interface – Part 3: Consumer applications*

IEC 60958-4, *Digital audio interface – Part 4: Professional applications*

3 Terms and definitions

For the purpose of this International Standard, the following terms and definitions apply.

3.1

sampling frequency

frequency of the samples representing an audio signal

NOTE When more than one signal is transmitted through the same interface, the sampling frequencies are identical.