



# SLOVENSKI STANDARD

## SIST EN 60958-3:2007

01-januar-2007

Nadomešča:

SIST EN 60958-3:2003

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### Digitalni zvokovni vmesnik - 3. del: Porabniške aplikacije (IEC 60958-3:2006)

Digital audio interface -- Part 3: Consumer applications

Digitalton-Schnittstelle -- Teil 3: Allgemeingebrauch

Interface audionumérique -- Partie 3: Applications grand public

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Ta slovenski standard je istoveten z: **EN 60958-3:2006**

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#### **ICS:**

33.160.30	Avdio sistemi	Audio systems
35.200	Vmesniška in povezovalna oprema	Interface and interconnection equipment

**SIST EN 60958-3:2007**

**en**

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EUROPEAN STANDARD  
NORME EUROPÉENNE  
EUROPÄISCHE NORM

**EN 60958-3**

October 2006

ICS 33.160.01

Supersedes EN 60958-3:2003

English version

**Digital audio interface**  
**Part 3: Consumer applications**  
(IEC 60958-3:2006)

Interface audionumérique  
Partie 3: Applications grand public  
(CEI 60958-3:2006)

Digitalton-Schnittstelle  
Teil 3: Allgemeingebrauch  
(IEC 60958-3:2006)

This European Standard was approved by CENELEC on 2006-10-01. 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.

This European Standard exists in two official versions (English, 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.

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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 the International Standard IEC 60958-3:2006, prepared by IEC TC 100, Audio, video and multimedia systems and equipment, was submitted to the formal vote and was approved by CENELEC as EN 60958-3 on 2006-10-01 without any modification.

This European Standard supersedes EN 60958-3:2003.

It includes the following significant technical changes :

- Electrical and optical requirements are removed from EN 60958-3; they will be specified in the next edition of 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) 2007-10-01
- latest date by which the national standards conflicting with the EN have to be withdrawn (dow) 2009-10-01

Annex ZA has been added by CENELEC.

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### Endorsement notice

The text of the International Standard IEC 60958-3:2006 was approved by CENELEC as a European Standard without any modification.

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

IEC 60958-4	NOTE	Harmonized as EN 60958-4:2003 (not modified).
IEC 61883-6	NOTE	Harmonized as EN 61883-6:2005 (not modified).
IEC 61937	NOTE	Harmonized in EN 61937 series (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 60841	1988	Audio recording - PCM encoder/decoder system	HD 544 S1	1989
IEC 60908	1999	Audio recording - Compact disc digital audio system	EN 60908	1999
IEC 60958-1	2004	Digital audio interface Part 1: General	EN 60958-1	2004
IEC 61119-1	1992	Digital audio tape cassette system (DAT) Part 1: Dimensions and characteristics	EN 61119-1	1994
IEC 61119-6	1992	Digital audio tape cassette system (DAT) Part 6: Serial copy management system	EN 61119-6	1994
IEEE 1394	2004	IEEE standard for high-performance serial bus bridges	-	-

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# INTERNATIONAL STANDARD

# IEC 60958-3

Third edition  
2006-05

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## Digital audio interface – Part 3: Consumer applications

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Международная Электротехническая Комиссия

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## INTERNATIONAL ELECTROTECHNICAL COMMISSION

**DIGITAL AUDIO INTERFACE –****Part 3: Consumer applications**

## 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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- 9) Attention is drawn to the possibility that some of the elements of this IEC Publication may be the subject of patent rights. IEC shall not be held responsible for identifying any or all such patent rights.

International Standard IEC 60958-3 has been prepared by IEC technical committee 100: Audio, video and multimedia systems and equipment.

This third edition of IEC 60958-3 cancels and replaces the second edition published in 2003 and constitutes a technical revision.

This edition includes the following significant technical changes with respect to the previous edition.

- Electrical and optical requirements are removed from IEC 60958-3; they should be specified in IEC 60958-1. The third edition of IEC 60958-1 will include these.

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

CDV	Report on voting
100/1009/CDV	100/1070/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.

The list of all the parts of the IEC 60958 series, under the general title *Digital audio 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.

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## DIGITAL AUDIO INTERFACE –

### Part 3: Consumer applications

#### 1 Scope

This part of IEC 60958 specifies the consumer application of the interface for the inter-connection of digital audio equipment defined in IEC 60958-1.

NOTE When used in a consumer digital processing environment, the interface is primarily intended to carry stereophonic programmes, with a resolution of up to 20 bits per sample, an extension to 24 bits per sample being possible.

#### 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 60841:1988, *Audio recording – PCM encoder/decoder system*

IEC 60908:1999, *Audio recording – Compact disc digital audio system*

IEC 60958-1:2004, *Digital audio interface – Part 1: General*

IEC 61119-1:1992, *Digital audio tape cassette system (DAT) – Part 1: Dimensions and characteristics*

IEC 61119-6:1992, *Digital audio tape cassette system (DAT) – Part 6: Serial copy management system*

IEEE 1394:2004, *IEEE standard for high-performance serial bus bridges*

#### 3 Terms and definitions

For the purposes of this document, the terms and definitions given in IEC 60958-1 apply.

#### 4 Interface format

The interface format as defined in IEC 60958-1 shall be used.

Unless otherwise specified in the annexes, the following specification is applicable.

- Audio sample word has a length of 20 bits/sample. The auxiliary sample bits are an optional expansion of the audio sample, if not used = “0”.
- User data is not used, all bits = “0”.
- Channel status is identical for both subframes of the interface, with the exception of the channel number, if that is not equal to zero.

## 5 Channel status

### 5.1 General

For every subframe, the channel status bit provides information related to the audio channel that is carried in that same subframe.

Channel status information is organized in a 192-bit block, subdivided into 24 bytes, numbered 0 to 23 (see Table 1). The first bit of each channel status block is carried in the frame with preamble “B”.

The individual bits of a channel status block are numbered 0 to 191.

The primary application is indicated by channel status bit 0.

As stated in IEC 60958-1, for the consumer digital audio applications described in this standard, this first channel status bit equals “0”.

NOTE As stated in IEC 60958-1, for professional application this first channel status bit equals “1”.

Secondary applications may be defined within the framework of these primary applications.

### 5.2 Application

#### 5.2.1 Channel status general format

For each channel, the channel status block provides the information described in this clause and summarized in Table 1.

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Table 1- Channel status general format for consumer use

Byte

0	a = "0"	b	c	d			Mode	
bit	0	1	2	3	4	5	6	7
1								
bit	8	9	10	11	12	13	14	15
2								
bit	16	17	18	19	20	21	22	23
3								
bit	24	25	26	27	28	29	30	31
4								
bit	32	33	34	35	36	37	38	39
5								
bit	40	41	42	43	44	45	46	47
6								
bit	48	49	50	51	52	53	54	55
7								
bit	56	57	58	59	60	61	62	63
8								
bit	64	65	66	67	68	69	70	71
9								
bit	72	73	74	75	76	77	78	79
10								
bit	80	81	82	83	84	85	86	87
11								
bit	88	89	90	91	92	93	94	95
12								
bit	96	97	98	99	100	101	102	103
13								
bit	104	105	106	107	108	109	110	111
14								
bit	112	113	114	115	116	117	118	119
15								
bit	120	121	122	123	124	125	126	127
16								
bit	128	129	130	131	132	133	134	135
17								
bit	136	137	138	139	140	141	142	143
18								
bit	144	145	146	147	148	149	150	151
19								
bit	152	153	154	155	156	157	158	159
20								
bit	160	161	162	163	164	165	166	167
21								
Bit	168	169	170	171	172	173	174	175
22								
Bit	176	177	178	179	180	181	182	183
23								
Bit	184	185	186	187	188	189	190	191
a: use of channel status block b: linear PCM identification				c: copyright information d: additional format information				