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Digitalton-Schnittstelle - Teil 3: Allgemeingebrauch (IEC 60958-3:2021)

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European foreword

The text of document 100/3543/CDV, future edition 4 of IEC 60958-3, prepared by IEC/TC 100 “Audio, video and multimedia systems and equipment” was submitted to the IEC-CENELEC parallel vote and approved by CENELEC as EN IEC 60958-3:2021.

The following dates are fixed:

- latest date by which the document has to be implemented at national level by publication of an identical national standard or by endorsement (dop) 2022–07–07
- latest date by which the national standards conflicting with the document have to be withdrawn (dow) 2024–10–07

This document supersedes EN 60958-3:2006 and all of its amendments and corrigenda (if any).

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IEC 60908	NOTE Harmonized as EN 60908
IEC 61119-1	NOTE Harmonized as EN 61119-1
IEC 61119-6	NOTE Harmonized as EN 61119-6
IEC 61880:1998	NOTE Harmonized as EN 61880[1] (not modified)
IEC 61883-6:2014	NOTE Harmonized as EN 61883-6:2014 (not modified)
IEC 61937 (series)	NOTE Harmonized as EN 61937 (series)

[1] To be published. Stage at time of publication: prEN 61880:2021.

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Annex ZA
(normative)

Normative references to international publications with their corresponding European publications

The following documents are referred to in the text in such a way that some or all of their content constitutes requirements 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 1 Where an International Publication has been modified by common modifications, indicated by (mod), the relevant EN/HD applies.

NOTE 2 Up-to-date information on the latest versions of the European Standards listed in this annex is available here: www.cenelec.eu.

Publication	Year	Title	EN/HD	Year
IEC 60958-1	-	Digital audio interface - Part 1: General	EN IEC 60958-1	-
IEC 60958-5	-	Digital audio interface - Part 5: Consumer application enhancement	EN IEC 60958-5	-

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DIGITAL AUDIO INTERFACE –

Part 3: Consumer applications

FOREWORD

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IEC 60958-3 has been prepared by technical area 20: Analogue and digital audio, of IEC technical committee 100: Audio, video and multimedia systems and equipment. It is an International Standard.

This fourth edition cancels and replaces the third edition published in 2006, Amendment 1:2009 and Amendment 2:2015. This edition constitutes a technical revision.

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

a) The relevant part of IEC 60958-5 is supported.

SIST EN IEC 60958-3:2022

The text of this International Standard is based on the following documents:

Draft	Report on voting
100/3543/CDV	100/3594/RVC

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

The language used for the development of this International Standard is English.

A list of all parts in the IEC 60958 series, published under the general title *Digital audio interface*, can be found on the IEC website.

This document was drafted in accordance with ISO/IEC Directives, Part 2, and developed in accordance with ISO/IEC Directives, Part 1 and ISO/IEC Directives, IEC Supplement, available at www.iec.ch/members_experts/refdocs. The main document types developed by IEC are described in greater detail at www.iec.ch/standardsdev/publications.

The committee has decided that the contents of this document will remain unchanged until the stability date indicated on the IEC website under webstore.iec.ch in the data related to the specific document. At this date, the document 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 interconnection 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 documents are referred to in the text in such a way that some or all of their content constitutes requirements 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.

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

IEC 60958-5, *Digital audio interface – Part 5: Consumer application enhancement*

3 Terms and definitions

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

ISO and IEC maintain terminological databases for use in standardization at the following addresses:

- IEC Electropedia: available at http://www.electropedia.org/
- ISO Online browsing platform: available at http://www.iso.org/obp

4 Interface format

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

Unless otherwise specified in Annex A to Annex T, 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.