SVENSK STANDARD SS-EN IEC 62680-1-7

Fastställd	Utgåva	Sida	Ansvarig kommitté
2020-05-13	1	1 (1+28)	SEK TK 100

Gränssnitt för seriebuss för datakommunikation (USB) – Del 1-7: Gemensamma komponenter – Definition av klasser av apparater för USB Audio 3.0 – Dataformat

Universal serial bus interfaces for data and power – Part 1-7: Common components – USB Audio 3.0 device class definition data formats

Som svensk standard gäller europastandarden EN IEC 62680-1-7:2019. Den svenska standarden innehåller den officiella engelska språkversionen av EN IEC 62680-1-7:2019.

Nationellt förord

Europastandarden EN IEC 62680-1-7:2019

består av:

– **europastandardens ikraftsättningsdokument,** utarbetat inom CENELEC
– **IEC 62680-1-7, First edition, 2019 - Universal serial bus interfaces for data and power - Part 1-7: Common components - USB Audio 3.0 device class definition data formats**

utarbetad inom International Electrotechnical Commission, IEC.

ICS 33.160.00; 35.100.20

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EUROPEAN STANDARD

NORME EUROPÉENNE

EUROPÄISCHE NORM

EN IEC 62680-1-7

November 2019

ICS 33.160; 35.100.20

English Version

Universal serial bus interfaces for data and power - Part 1-7: Common components - USB Audio 3.0 device class definition data formats (IEC 62680-1-7:2019)

Interfaces de bus universel en série pour les données et l'alimentation électrique - Partie 1-7: Composants communs - Définition de classes de dispositifs USB Audio 3.0 pour formats de données (IEC 62680-1-7:2019)

Schnittstellen des Universellen Seriellen Busses für Daten und Energie - Teil 1-7: Gemeinsame Komponenten - USB Audio 3.0 Geräteklassendefinition Datenformate (IEC 62680-1-7:2019)

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Comité Européen de Normalisation Electrotechnique
Europäisches Komitee für Elektrotechnische Normung

CEN-CENELEC Management Centre: Rue de la Science 23, B-1040 Brussels

Ref. No. EN IEC 62680-1-7:2019 E

European foreword

The text of document 100/3159/CDV, future edition 1 of IEC 62680-1-7, 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 62680-1-7:2019.

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)	2020-07-24
• latest date by which the national standards conflicting with the document have to be withdrawn	(dow)	2022-10-24

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INTERNATIONAL ELECTROTECHNICAL COMMISSION

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UNIVERSAL SERIAL BUS INTERFACES FOR DATA AND POWER –

Part 1-7: Common components – USB Audio 3.0 device class definition data formats

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The text of this standard was prepared by the USB Implementers Forum (USB-IF). The structure and editorial rules used in this publication reflect the practice of the organization which submitted it.

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

CDV	Report on voting
100/3159/CDV	100/3229/RVC

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

The committee has decided that the contents of this document will remain unchanged until the stability date indicated on the IEC website under "http://webstore.iec.ch" in the data related to the specific document. At this date, the document will be

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The IEC 62680 series is based on a series of specifications that were originally developed by the USB Implementers Forum (USB-IF). These specifications were submitted to the IEC under the auspices of a special agreement between the IEC and the USB-IF.

This standard is the USB-IF publication USB Device Class Definition for Audio Data Formats Release 3.0.

The USB Implementers Forum, Inc.(USB-IF) is a non-profit corporation founded by the group of companies that developed the Universal Serial Bus specification. The USB-IF was formed to provide a support organization and forum for the advancement and adoption of Universal Serial Bus technology. The Forum facilitates the development of high-quality compatible USB peripherals (devices), and promotes the benefits of USB and the quality of products that have passed compliance testing.

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UNIVERSAL SERIAL BUS
DEVICE CLASS DEFINITION
FOR
AUDIO DATA FORMATS

Release 3.0

September 22, 2016

SCOPE OF THIS RELEASE

This document is the Release 3.0 of this device class definition.

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REVISION HISTORY

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2.0	May. 31, 06	Frmts20 final.pdf	Release 2.0
3.0	Sep. 22, 16	Frmts30.pdf	Release 3.0

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The intention of this document is to describe in detail all the Audio Data Formats that are supported by the Audio Device Class. This document is considered an integral part of *the Audio Device Class Specification*, although subsequent revisions of this document are independent of the revision evolution of the main *USB Audio Specification*. This is to easily accommodate the addition of new Audio Data Formats without impeding the core *USB Audio Specification*.

1.1 RELATED DOCUMENTS

- *Universal Serial Bus Specification*, Revision 2.0 (referred to in this document as the *USB Specification*). In particular, see Chapter 5, “USB Data Flow Model” and Chapter 9, “USB Device Framework.”
- Universal Serial Bus Device Class Definition for Audio Devices (referred to in this document as USB Audio Device Class).
- Universal Serial Bus Device Class Definition for Terminal Types (referred to in this document as USB Audio Terminal Types).
- ANSI S1.11-1986 standard.
- MPEG-1 standard ISO/IEC 111172-3 1993. (available from http://www.iso.ch)
- MPEG-2 standard ISO/IEC 13818-3 Feb. 20, 1997. (available from http://www.iso.ch)
- Digital Audio Compression Standard (AC-3), ATSC A/52A Aug. 20, 2001. (available from http://www.atsc.org)
- Windows Media Audio (WMA) specification. (available from http://www.microsoft.com)
- ANSI/IEEE-754 floating-point standard.
- ISO/IEC 60958 International Standard: *Digital Audio Interface and Annexes.*
- ISO/IEC 61937 standard.
- ITU G.711 standard.
- ETSI Specification TS 102 114, “DTS Coherent Acoustics; Core and Extensions”. (Available from http://webapp.etsi.org/action%5CPU/20020827/ts_102114v010101p.pdf)