



BSI Standards Publication

Universal serial bus interfaces for data and power

Part 1-8: Common components — USB Audio 3.0
device class definition terminal types

National foreword

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(IEC 62680-1-8:2019)

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- Définition de classes de dispositifs USB Audio 3.0 pour
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UNIVERSAL SERIAL BUS INTERFACES FOR DATA AND POWER –**Part 1-8: Common components –
USB Audio 3.0 device class definition terminal types**

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International Standard IEC 62680-1-8 has been prepared by technical area 18: Multimedia home systems and applications for end-user networks, of IEC technical committee 100: Audio, video and multimedia systems and equipment.

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
100/3160/CDV	100/3230/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.

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INTRODUCTION

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 Terminal Types Release 3.0.

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UNIVERSAL SERIAL BUS DEVICE CLASS DEFINITION FOR TERMINAL TYPES

Release 3.0

September 22, 2016

SCOPE OF THIS RELEASE

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

CONTRIBUTORS

Joe Scanlon	Advanced Micro Devices
Rhoads Hollowell	Apple Inc.
Girault Jones	Apple Inc.
Matthew X. Mora	Apple Inc.
Tzung-Dar Tsai	C-Media Electronics, Inc.
Brad Lambert	Cirrus Logic, Inc.
Dan Bogard	Conexant Systems, Inc.
Pete Burgers	DisplayLink (UK), Ltd.
David Roh	Dolby Laboratories, Inc.
Leng Ooi	Google, Inc.
Pierre-Louis Bossart	Intel Corporation
David Hines	Intel Corporation
Abdul Rahman Ismail (Co-Chair)	Intel Corporation
Devon Worrell	Intel Corporation
Chandrashekhara Rao	Logitech, Inc.
Terry Moore	MCCI Corporation
Alex Lin	MediaTek, Inc.
Bala Sivakumar	Microsoft Corporation
Geert Knapen (Co-Chair & Editor)	NXP Semiconductors PL Mobile Audio 411 E. Plumeria drive San Jose, CA 95134, USA E-mail: geert.knapen@nxp.com
James Goel	Qualcomm, Inc.
Andre Schevciw	Qualcomm, Inc.
Jin-Sheng Wang	Qualcomm, Inc.
Morten Christiansen	Synopsys

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Please send comments via electronic mail to audio-chair@usb.org

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1 INTRODUCTION

The intention of this document is to describe in detail all the Terminal Types 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 *Audio Device Class Specification*. This is to easily accommodate the addition of new Terminal Types without impeding the core *Audio Device Class Specification*.

1.1 SCOPE

The Audio Device Class Definition applies to all devices or functions embedded in composite devices. All audio signals inside an audio function start at an Input Terminal, pass through some Units, and leave the function through an Output Terminal. Units can manipulate the signal in various ways. Terminals represent the connections of the function to the outside world.

As part of the Terminal descriptor, the **wTerminalType** field specifies the vendor's suggested use of the Terminal. For example, a pair of speakers is a more suitable target for music output than a telephone line. This feature allows a vendor to ensure that applications use the device in a consistent and meaningful way.

1.2 RELATED DOCUMENTS

- *Universal Serial Bus Specification*, 1.0 final draft revision (also referred to as the *USB Specification*). In particular, see Chapter 9, "USB Device Framework".
- Universal Serial Bus Device Class Definition for Audio Data Formats (referred to in this document as USB Audio Data Formats).
- ANSI S1.11-1986 standard.
- AES10-2003 AES Recommended Practice for Digital Audio Engineering – Serial Multichannel Audio Digital Interface (MADI)
- MPEG-1 standard ISO/IEC 111172-3 1993.
- MPEG-2 standard ISO/IEC 13818-3 Feb. 20, 1997.
- Digital Audio Compression Standard (AC-3), ATSC A/52 Dec. 20, 1995. (available from <http://www.atsc.org>)
- ANSI/IEEE-754 floating-point standard.
- ISO/IEC 958 International Standard: Digital Audio Interface and Annexes.
- ISO/IEC 1937 standard.
- ITU G.711 standard.

1.3 TERMS AND ABBREVIATIONS

None.