IEC 62680-1-6

Edition 1.0 2019-09

INTERNATIONAL STANDARD

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colour inside

Universal serial bus interfaces for data and power – Part 1-6: Common components – USB Audio 3.0 device class definition basic functions

Interfaces de bus universel en série pour les données et l'alimentation électrique – Partie 1-6: Composants communs – Définition de classes de dispositifs USB Audio 3.0 pour fonctions de base

IEC 62680-1-6:2019-09(en-fr)

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IEC Central Office
3, rue de Varembé
CH-1211 Geneva 20
Switzerland
Tel.: +41 22 919 02 11
info@iec.ch
www.iec.ch

USB Implementers Forum, Inc.
3855 S.W. 153rd Drive
Beaverton, OR 97003
United States of America
Tel: +1 503-619-0426
admin@usb.org
www.usb.org

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UNIVERSAL SERIAL BUS INTERFACES FOR DATA AND POWER –

Part 1-6: Common components – USB Audio 3.0 device class definition basic functions

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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 Basic Audio Functions Release 3.0.

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UNIVERSAL SERIAL BUS
DEVICE CLASS DEFINITION
FOR
BASIC AUDIO FUNCTIONS

Release 3.0

September 22, 2016

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SCOPE OF THIS RELEASE

This document is the Release 3.0 of this specification.

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
Chandrashekhar 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 Phone: +1 (408) 518-5514 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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3.0	Sep. 22, 16	BasicAudioDevice30.pdf	Release 3.0

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1 INTRODUCTION

1.1 SCOPE

The *USB Audio Device Class Definition for Basic Audio Functions* applies to all USB Audio Functions that are based on the *Universal Serial Bus Device Class Definition for Audio Devices Release 3.0.* It defines baseline audio functionality for all ADC 3.0 compliant Hosts and Devices.

1.2 PURPOSE

The purpose of this specification is to create a higher level of interoperability among Hosts and Audio Devices. By establishing a set of essential audio features, users can expect a consistent experience, Device manufacturers have a solid template to follow, and Host drivers may be simplified.

1.3 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 3.1 Specification*, Revision 1.0 (referred to in this document as the *USB 3.1 Specification*). This document covers details specific to SuperSpeed and SuperSpeed+ devices.
- *Universal Serial Bus Device Class Definition for Audio Devices Release 3.0* (referred to in this document as Audio 3.0 Specification or ADC 3.0 in short).
- *Universal Serial Bus Device Class Definition for Audio Data Formats Release 3.0* (referred to in this document as Audio 3.0 Data Formats).
- *Universal Serial Bus Device Class Definition for Terminal Types Release 3.0* (referred to in this document as Audio 3.0 Terminal Types).
- Device Class Definition for Human Interface Devices (HID) Version 1.11. June 27, 2001.
- *HID Usage Tables* Version 1.12. October 28, 2004. Please visit www.usb.org for the latest additions to the HID Usage Tables.

1.4 TERMS AND ABBREVIATIONS

This section defines terms used throughout this document. For additional terms that pertain to the Universal Serial Bus, see the “Terms and Abbreviations” section in the *USB Specification* and for terms that pertain to the Audio Device Class, see the “Terms and Abbreviations” section in the *Audio 3.0 Specification*.

Note: the terms “Audio Device” and “Audio Function” are used interchangeably in this document. Since audio functionality always resides at the interface level, the term Audio Device is strictly speaking omly valid for devices **that contain audio functionality only.**

BADD:	Acronym for Basic Audio Device Definition.
BAIF:	Acronym for Basic Audio Input Function.
BAIFT:	Acronym for Basic Audio Input Function Topology.
BAIOF:	Acronym for Basic Audio Input/Output Function.
BAIOFT:	Acronym for Basic Audio Input/Output Function Topology.
BAOF:	Acronym for Basic Audio Output Function.
BAOFT:	Acronym for Basic Audio Output Function Topology.

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