

INTERNATIONAL STANDARD

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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**

**Interfaces de bus universel en série pour les données et l'alimentation
électrique –
Partie 1-8: Composants communs – Définition de classes de dispositifs USB
Audio 3.0 pour types de terminaux**



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

CDV	Report on voting
100/3160/CDV	100/3230/RVC

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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 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.

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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.