

---

## Processor SDK Audio

---

# Release Notes

Release: Alpha-4  
Revision: 0.10  
Publication Date: 17 March 2017



---

Texas Instruments, Incorporated  
20450 Century Boulevard  
Germantown, MD 20874 USA

---

VP00102-Form-1  
Revision F

# Contents

---

- Overview..... 1
- Label and Version Information for the Release ..... 1
  - Software Label Information..... 1
  - Hardware Support ..... 1
  - Operating System Support ..... 1
- New and Updated Features..... 2
  - New Features..... 2
- Known Issues ..... 2
- Licensing..... 2
- Delivery Package ..... 2
  - Directory Structure ..... 2
- Required Compile Tools..... 3
  - Tools Supplied by Texas Instruments..... 3
  - Tools Not supplied by Texas Instruments ..... 3
- Installation Instructions..... 4
- Customer Documentation List ..... 4

© Copyright 2013 Texas Instruments, Inc.  
All Rights Reserved

**NOTICE OF CONFIDENTIAL AND PROPRIETARY INFORMATION**

Information contained herein is subject to the terms of the Non-Disclosure Agreement between Texas Instruments, Inc. and your company, and is of a highly-sensitive nature. It is confidential and proprietary to Texas Instruments, Inc. It shall not be distributed, reproduced, or disclosed orally or in written form, in whole or in part, to any party other than the direct recipients without the express written consent of Texas Instruments, Inc.

# Processor SDK Audio for Alpha-4

---



---



---

## Overview

This document provides information on the features, functions, delivery package, compile tools, licensing, and JIRA ticket resolutions incorporated in the following release of software: Alpha-4. It includes a list of the known issues that are present at the time of this release.

## Label and Version Information for the Release

This release supports the following software and hardware versions.

### Software Label Information

Table 1 lists the software label and code versions applicable to this release.

**Table 1** Labels and Versions Supported by this Release

Release	Label/Version Information
PASDK	PASDK_1.0.0.2/1.0

### Hardware Support

This release is supported on the following hardware platform:

- Mistral K2G Rev. D EVM (SPRW274).
- Mistral K2G EVM Audio Daughter Card Rev. B (SPRW279).
- MDS HSR41P HDMI Repeater module Rev. A.
- MDS DA10X Interface board (IFB) Rev. A.

### Operating System Support

This release is supported on the following operating system version:

- SYS/BIOS 6.45.01.29

## New and Updated Features

This release provides support for the following new and updated features.

### New Features

The following new features are supported in this release.

- Fast copy support for DA10x framework (via LibArch, not in PASDK)
- Harmony v1.3 components (not necessarily passing CIDK)
- High sampling rate support (PCM over HDMI) and SRC benchmarking
  - Note: HSR support is still in progress
  - Note: HSR benchmarking requires re-build

### Known Issues

The following is a list of all known issues:

- For all decoders there are random minor audio quality issues
- Audio sometimes mutes after sending a few streams over HDMI
- MAT/THD inputs with sampling rate over 48kHz do not work
- Dynamic IOS Switching

### Licensing

See the provided Software Manifest(s) for licensing information (see Table 5 at the end of this documentation).

### Delivery Package

The delivery package from Texas Instruments will be delivered as two self-extracting executables. The PASDK package installer:

**processor\_audio\_sdk-DA10x-01.00.00.02-Windows-x86-Install.exe.** And Dolby IP package installer: **processor\_audio\_sdk-DA10x\_DolbyAtmosAVR-01.00.00.02-Windows-x86-Install.exe.**

PASDK is released as source, Dolby IP is in a binary format.

### Directory Structure

The following directories and/or components are included in the processor\_audio\_sdk\_1\_00\_00\_02 package directory.

- docs\ [documentation]
- pasdk\ [PASDK]
  - paf\ [PASDK OS dev]

- common\ [Common code between DSP and ARM apps]
- shared\ [DSP and ARM shared IPC and memory configurations]
- test\_arm\ [ARM application]
- test\_dsp\ [DSP application]
- psdk\_cust\ [TI packages customized for PASDK]
  - ipc\_3\_43\_00\_00\_eng\ [Customized IPC release 3.43]
  - pdk\_k2g\_1\_0\_1 [Enhanced PDK K2G release 1.0.1]
- scripts\ [Build scripts]
- tools\ [Alpha communication tools]
- pa\
  - asp\rel\ [ASP IP (bm2, dem, geq3) header files]
  - build\ [ARM and DSP libraries]
  - dec\rel\sng1 [Decoder IP (sng1) header files]
  - docs [documentation]
- dolby\_ip\dh-ip\ [Dolby IP root]
  - asp\ [ASP IP (bmda, car, oar) header files]
  - build\ [ARM and DSP Dolby IP libraries]
  - dec\ [Decoder IP (ddp, mat-thd) header files]
  - DOC\ [documentation]

## Required Compile Tools

Specific tools and patches must be used to compile and/or deploy Texas Instruments software. Texas Instruments cannot guarantee product performance when other tools are used.

### Tools Supplied by Texas Instruments

- Code Composer Studio 6.1.2.00015 for Windows
- C6000 v8 Compiler Tools: 8.1.0

### Tools Not supplied by Texas Instruments

- GNU ARM Tools 4.8.0.2014q3-20140805

## Installation Instructions

See the PASDK Setup Guide (doc. 1) for installation instructions and implementation guidelines.

## Customer Documentation List

Table 2 lists the documents that are accessible in the package.

**Table 2** Product Documentation included with this Release

Document #	Document Title	File Name
1	PASDK Setup Guide	docs/PASDK_setup_guide.pdf
2	ASP Example	docs/DA10x_UG_AspExample.pdf
3	TI_PA Filter Library/Framework (FIL)	docs/pa-asp-fil.pdf
4	Creating new ASP algorithms using FIL	docs/pa-fil-fe.pdf
5	DA10x-K2G Dolby Atmos for Audio-Visual Receiver Products 1.3 Manifest	DA10x-K2GDolbyAtmosforAVR1.3manifest.html
6	Pre-Release DA10x Processor Audio SDK Manifest	DA10x Processor Audio SDK_01.00.00.02_manifest.html