

BIOS Audio Driver Release Notes

Version: 1.10.02

Release Notes

May 28, 2008

This driver architecture conforms to the PSP framework. The driver handles communication to or from the multi-channel Audio/buffered serial port (McASP/McBSP). Audio driver acts as an interface between the application and underneath mini driver. The package shall include deliverables for the following:

- Audio driver for (DSP/BIOSv5.31.06) running on the DSP core of the DM6437/C6424 Soc.

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1 New In This Release

- 1.1 New API for reading and writing from and to the codec registers.

2 System Requirements

This release requires the following products.

- ❖ CCS (CCS 3.3.38.2)
- ❖ Code generation tool version is 6.0.8
- ❖ DSP/BIOS 5.31.06
- ❖ Installing DSP/BIOS Audio Driver in pspdriver package
- ❖ Install BIOS package as per instructions provided along with the package.
- ❖ Audio driver source is available in <root>/system\DM6437\bios\evmDM6437\src\audio folder.
- ❖ Audio driver source is available in <root>/system\C6424\bios\evm6424\src\audio folder.
- ❖ Build the Audio driver project file in build directory to build the debug/release library.
- ❖ Sample application / test code is provided in Driver package in <root>/system\DM6437\bios\evmDM6437\src\audio\sample folder
- ❖ Sample application / test code is provided in Driver package in <root>/system\C6424\bios\evm6424\src\audio\sample folder

3 Uninstall the DSP/BIOS Audio driver

- ❖ Un-install the products (listed in system requirements) as per instructions provided with the product.

4 Adding instance of the device driver

To have Audio driver included in the application, add either of McBSP or McASP TCI file i.e. "dm6437_audio_mcbasp.tci" and "dm6437_audio_mcasps.tci" for DM6437 and "c6424_audio_mcbasp.tci" and "c6424_audio_mcasps.tci" for C6424 in the TCF file of the application.

5 Release Contents

Figure 1 shows the release contents of the DSP/BIOS Audio driver.

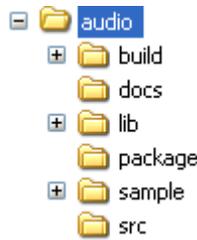


Figure 1: DSP/BIOS Audio driver release contents.

- ❑ **build** : This folder contains the driver library project
- ❑ **docs** : This folder contains Release notes document and User Guide Document.
 - Release Note gives the details the system requirements, steps to Install /Uninstall the Package.This document list the known issues of the driver.
 - User Guide provides information about how to use the driver. It contains description of sample applications which guide the end user to make their applications using this driver.
- ❑ **lib** : This folder contains the driver library
- ❑ **package** : This folder contains the package files
- ❑ **src** : This folder contains the source files for audio
- ❑ **sample** : This folder contains the sample applications that demonstrates the use of the driver. This sample application demonstrates basic features of the driver. User can use this sample application as reference to make their applications. In addition to that this folder also contains the .tci files for McASP and McBSP instances.
 - **build** : This subfolder in sample folder contains sample application library as well as stand alone sample application project. User can run specific sample application by adding sample applications library in executable project.

6 Fixed In This Release

None.

7 Known Issues

1.	AUDIO_OUT_SELECT IOCTL is not supported as output selection (Line 2 or Headphone) is not selectable.
Release Note	
<ul style="list-style-type: none"> • AUDIO_OUT_SELECT IOCTL is not supported as audio out selection (LINE OUT headphone) is not configurable. 	
Workaround	
None	
2.	With current audio driver release McASP instance 0 and McBSP

	instance 1 can be used.
Release Note	
<ul style="list-style-type: none"> With current audio driver release McASP instance 0 and McBSP instance 1 can be used. 	
Workaround	
None	

3.	AIC33 in slave mode supports sample rate 44.1 KHz and 48 KHz
Release Note	
<ul style="list-style-type: none"> AIC33 in slave mode supports sample rate 44.1 KHz and 48 KHz. 	
Workaround	
None	

4.	AIC33 supports word width 16, 20, 24 and 32 bits only
Release Note	
<ul style="list-style-type: none"> AIC33 supports word width 16, 20, 24 and 32 bits only. 	
Workaround	
None	

NOTE: Please refer to the individual driver i.e. McASP and McBSP driver known issues

8 Revision history

Date	Author	Comments	Version
25 th December, 2006	Pratik Joshi	First draft	1.0
3 rd January, 2007	Pratik Joshi	Closed review comments for Release 0.4.0	1.1
16 th January, 2007	Pratik Joshi	Updated for release 0.4.1	1.2
2 nd February, 2007	Pratik Joshi	Updated for release 0.5.0	1.3
23 rd March, 2007	Pratik Joshi	Updated for release 0.6.0	1.4
23 rd April, 2007	Pratik Joshi	Updated for release 0.7.0	1.5
9 th May, 2007	Pratik Joshi	Updated for release GA 1.0.0	1.6
14thMay,2007	Pratik Joshi	Updated for release GA 1.0.1	1.7

22 June 2007	Anuj Aggarwal	Updated for GA patch release 1.00.01	1.8
18 July 2007	Pratik Joshi	Updated for GA 1.00.03.00	1.9
29 February 2008	M Sriram	Updated for the release 1.10.00.10	1.10
May 28,2008	Imtiaz SMA	Updated for release 1.10.01	1.11
