BIOS McBSP Driver Release Notes

Version: 1.10.03

Release Notes

April 16, 2009

DSP/BIOS McBSP driver is general-purpose driver to access a serial port. This driver architecture conforms to the PSP framework. The driver handles communication to or from the multi-channel buffered serial port (McBSP), and used the EDMA to transfer the data. The package shall include deliverables for the following:

- McBSP driver running on the DSP core of the DM6437/C6424 Soc.

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1   New In This Release

The user guide has been updated for the various pragma directives, macro definitions and compiler switches used in the driver.

2   System Requirements

Details about the tools and the BIOS version that the driver is compatible with can be found in the system Release Notes.

3   Installing DSP/BIOS McBSP Driver in asp-psp package

❖ Install BIOS package as per instructions provided along with the package.

❖ McBSP Device driver sources are available in <root>/drivers/mcbsp folder.

❖ Build the McBSP project file in build directory to build the debug/release library.

❖ Sample application / test code is provided in Driver package

4   Uninstall the DSP/BIOS McBSP driver

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

5   Adding instance of the device driver

To have McBSP device driver included in the application, it is required to add the TCI file i.e. "dm6437_mcbsp1.tci" for DM6437 and "c6424_mcbsp1.tci" for C6424 in the TCF file of the application. Refer to section 5 in DM6437_BIOS_PSP_Release_Notes.doc for DM6437 and section 5 in C6424_BIOS_PSP_Release_Notes.doc for C6424.

6   Release Contents

Figure 1 shows the release contents of the DSP/BIOS McBSP driver. Sample folder contains test application for McBSP driver. Src folder contains McBSP driver files.

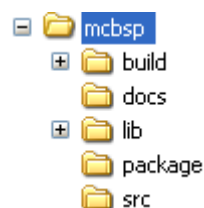Document folder contains McBSP driver documents.

Figure 1: DSP/BIOS McBSP driver release contents.

7   Fixed In This Release

None.

8   Known Issues

1.	Global callback for frame sync error handling is not tested
Release Note	
• Global callback for frame sync error handling is not tested	
Workaround	
None	

2.	McBSP in Master mode does not support 12000 Hz and 8000 Hz sampling rates
Release Note	
• McBSP in Master mode does not support 12000 Hz, 11025 Hz and 8000 Hz sampling rates	
Workaround	
None	

3.	McBSP default is configured in DSP mode
Release Note	
• McBSP default is configured in DSP mode	
Workaround	
None	

4.	For word width 16, 20 and 24 after calling DEVICE_RESET there is noise heard
Release Note	
• For word width 16, 20 and 24 after calling DEVICE_RESET there is noise heard	
Workaround	
None	

5.	Application callback function with SIO/DIO class driver is not tested
Release Note	
• Application callback function with SIO/DIO class driver is not tested	
Workaround	
None	

9   Revision history

Date	Author	Comments	Version
November 23, 2006	Pratik Joshi	BFT release 0.3.0	1.3
November 30, 2006	Pratik Joshi	Modified for release 0.3.0	1.4
January 2, 2007	Pratik Joshi	Modified for release 0.4.0	1.5
January 16, 2007	Pratik Joshi	Modified for release 0.4.2	1.6
January 27, 2007	Pratik Joshi	Modified for release 0.5.0	1.7
March 22, 2007	Pratik Joshi	Modified for release 0.6.0	1.8
April 23, 2007	Pratik Joshi	Modified for release 0.7.0	1.9
May 8, 2007	Pratik Joshi	Modified for release GA 1.0.0	1.10
May 14, 2007	Pratik Joshi	Modified for release GA 1.0.1	1.11
June 22, 2007	Anuj Aggarwal	Modified for patch release GA 1.00.01	1.12
June 29, 2007	Amit Chatterjee	Modified Release Version	1.13
July 18, 2007	Pratik Joshi	Modified Release Version	1.14
February 29, 2008	M Sriram	Updated for release 1.10.00.10	1.15
May 28,2008	Imtiaz SMA	Updated the user guides for release 1.10.01	1.16