

PLATFORMGUIDE

DSP/BIOS™ LINK

DRA44x/DRX416

LNK 186 USR

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A. PLATFORM GUIDE

1 Purpose

DSP/BIOS[™] LINK is foundation software for the inter-processor communication across the GPP-DSP boundary. It provides a generic API that abstracts the characteristics of the physical link connecting GPP and DSP from the applications. It eliminates the need for customers to develop such link from scratch and allows them to focus more on application development.

This document provides the users necessary information about usage of DSP/BIOS[™] LINK on the DRA44x/DRX45x/DRX416 platform.

This document corresponds to the product release Version 1.65.00.03 dated JUL 12, 2010.

2 **TextConventions**

	This bullet indicates important information.
	Please read such text carefully.
	This bullet indicates additional information.
[arg1 arg2]	In context of the commands, contents enclosed in square brackets are the optional arguments to the command.
	Different values of these arguments are separated by " ".

3 Terms&Abbreviations

CCS	Code Composer Studio
IPC	Inter Processor Communication
GPP	General Purpose e.g. ARM
DSP	Digital Signal Processor e.g. TMS320C5510
CGTools	Code Gen Tools, e.g. Compiler, Linker, Archiver

4 References

1.	User Guide	DSP/BIOS™ LINK user guide
2.	InstallGuide_ <os>_Ja cinto.doc</os>	Installation guide for relevant OS if present.
3.	Porting Guide	Porting guide for relevant OS if present.

5 ConfiguringCCS

5.1 DRA44x/DRX416EVM

To use CCS for debugging the DSP side application, you will need to configure CCS to use both ARM and DSP with the EVM.



CCS can attach to only ARM in the beginning. It can attach to the DSP only after the ARM-side application releases it from reset through a call to PROC_Start ().

6 Platformspecificinformation

6.1 Readwritesample

The addresses to be passed as parameters for readwrite samples are platform specific.

Read write sample can be used for addresses in SDRAM, GEM L1D RAM and L2 RAM on DRA44x and in SDRAM for DRX416 platform.